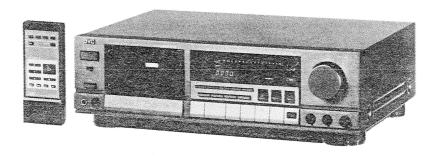


SERVICE MANUAL

STEREO CASSETTE DECK

TD-V1010 A/B/C/E/G/J/U



Area suffix								
A Australia								
B U.K.								
C Canada								
E Continental Europe								
G W. Germany								
J								
U Other Areas								

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1 Safety Precautions

- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (on the Schematic Diagram and Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the product
 (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product
 is safe to operate without danger of electrical shock.

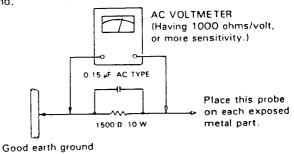
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current
 from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the
 chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect-a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

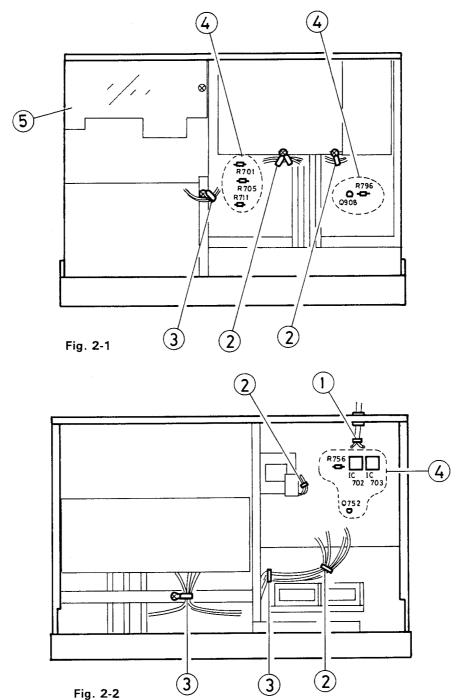
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

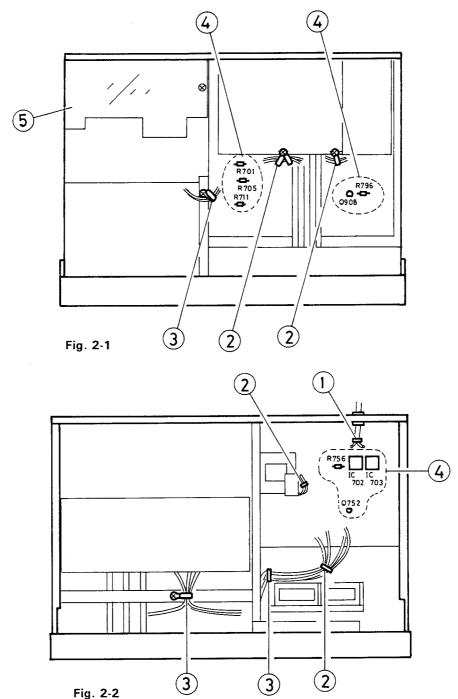
- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

2 Safety Precautions about TD-V1010



- ① The power cord should be bound and securely fastened onto the substrate to avoid contacting other parts and shortcircuit in case of breaking of the wire.
- ② ③ All wires should be bound and arranged possibly away from the primary circuit, sharp edges of the chassis and heating parts (shown in _____ in the diagram) not to touch them.
- Parts to be attached onto the back of the P.C. board should be fastened down with bond or spacers.
- 5 The protector be fixed on screw.

2 Safety Precautions about TD-V1010



- ① The power cord should be bound and securely fastened onto the substrate to avoid contacting other parts and shortcircuit in case of breaking of the wire.
- ② ③ All wires should be bound and arranged possibly away from the primary circuit, sharp edges of the chassis and heating parts (shown in _____ in the diagram) not to touch them.
- Parts to be attached onto the back of the P.C. board should be fastened down with bond or spacers.
- (5) The protector be fixed on screw.

truction

Book (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

JI/C

ت ا

@ (1)

CARHE

4

(No. 4308)

BEZEICHNUNG DER TEILE UND IHRE FUNKTIONEN

NOMENCLATURE DES PIECES ET LEURS **FONCTIONS**

 Φ

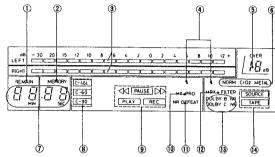
ONDERDELEN EN HUN FUNKTIE MULTI MODE DISPLAY

NAMEN VAN

Multifunktions-Anzeige (MULTI MODE DISPLAY) Affichage MULTI MODE DISPLAY
Multifunktionale display (MULTI MODE DISPLAY

Indicador de múltiples modos (MULTI MODE DISPLAY) Funktionindikatorer (MULTI MODE DIS-

NOMBRE DE LAS PARTES FUNKTIONSBESKRIVNING Y SUS FUNCIONES



A TIMER witch

When an optional timer is used, recording and playback can be performed at any desired time. (See page 49.) POWER switch

Cassette holder A REMOTE SENSOR

Receives the infrared signals trensmitted from the remote control unit.

- MULTI MODE DISPLAY REMAIN indicator MEMORY indicator
 - Peak level meter Recording guide indicator Digital peak indicator Tape indicator
- Digital counter Tape length indicator Machanism mode indicator HX PRO indicator
- NO DEFEAT indicator MPX FILTER indicator 3) DOLBY NR mode indicator
- Monitor indicator (INPUT LEVEL control Adjust the recording level with this control.
- @ EJECT button Press to open the cassette holder @ PHONES jack
- Connect headphones (with an impedance of 8 ohms to 1 kohm).
- PHONES LEVEL control (See page 25.) **DOLBY NR switches**
- Dolby HX PRO switch (See page 45.) Used to record sources which contain many

high frequency components.

Speicheranzeige (MEMORY) Spitzenpegelanzeige Aufnahme-Bezugsanzeige Spitzenpegelanzeige Bandsortenanzeige Digitales Zählwerk

Schaltuhrschalter (TIMER)

Netzschalter (POWER)

Cassettenhalter

PLAY)

Bei Verwendung einer als Sonderzubehör erhältlichen Schaltuhr können Aufnahme-

gen Zeitpunkt automatisch gestartet

Für den Empfang des von der Fernbedie-

Fernbediensensor (REMOTE SENSOR)

nung ausgestrahlten Infrarotsignals.

Multifunktions-Anzeige(MULTI MODE DIS-

1) Restzeitanzeige (REMAIN)

Wiedergabefunktion zu jedem beliebi-

- Randlängenagzeige) Laufwerksfunktionsanzeige
- (i) HX-PRO-Anzeige (ii) Anzeige für Rauschunterdrückungsabschaltung (NR DEFEAT) (12) MPX-FILTER-Anzeige
- 13 Dolby NR-Betriebsartanzeige (i) Anzeige für die Tonüberwachung
- G Eingangspegetregler (INPUT LEVEL)
 Für die Aufnahmegegelaussteuerung.
- Auswurftaste (EJECT)

 Zum Öffnen des Cassettenhalters betätigen. (B) Kopfhörerbuchse (PHONES) Konfhörer mit einer Impedanz zwischen 8 Ohm bis zu 1 kOhm können hier ange-
- chlossen werden Kapfhörerpegelregler (PHONES LEVEL) (Siehe Seite 25.)
- Schalter für Dolby Rauschunterdrückung (DOLBY NR) Dolby HX PRO-Schalter
- (Siehe Seite 45.) Rei der Aufnahme von Signalquellen die einen hohen Anteil von hohen Frequenzen

vorumisen verwenden

 Commutateur de minuterie (TIMER) Quand une minuterie ontinnnelle est utilisée l'enregistrement et la lecture peuvent être ffectués à n'importe quelle heure voulue. (Voir page 49.)

Interrupteur d'alimentation (POWER) Porte cassette

Détecteur de télécommande (REMOTE SENSOR)

Reçoit les signaux infrarouges transmis par le hoftier de télécommande

- Affichage MULTI MODE DISPLAY Affichage de durée de bande restante (REMAIN)
- (2) Indicateur de mémoire (MEMORY) Indicateur de niveau de crête Indicateur de quide d'enregistrement
- Indicateur de crête numérique Indicateur de bande
- Compteur numérique Indicateur de longueur de bande Indicateur de mode
- ndicateur HX PRO I Indicateur NR DEFEAT 12 Indicateur de filtre MPX (MPX FILTER) 3) Indicateur de mode DOLBY NR
- (1) Indicateur de moniteur G Commande de niveau d'entrée (INPUT I EVEL)
- Régler le niveau d'enregistrement avec cette
- Touche d'éjection (EJECT)
- Appuver pour ouvrir le porte cassette Prise de casque d'écoute (PHONES) Raccorder un casque d'écoute (avec una impédance de 8 ohms à 1 kohm).
- Commande de niveau de casque d'écoute
 (PHONES LEVEL) (Voir page 25.)
- (DOLBY NR) Commutateur DOLBY HX PRO (Voir page
- Utilisé pour enregistrer des sources qui contiennent beaucoup de composantes haute fréquence.

Timerschakelaar (TIMER)

Bij gebruik van een optionele timer kunnen opnemen en weergaven op elk gewenst tijdstip worden uitgevoerd. (Zie blz. 50.)

 Spanningsschakelaar (POWER) Afstandsbedlening (REMOTE

SENSOR) Ontvangt de infrarood signalen afgegeven via de afstandsbediening.

- Multifunktionele display (MULTI MODE DISPLAY)
- Resterende bandtijdindikator (REMAIN)
 Geheugenindikator (MEMORY)
- Piekniveaumeter Ongemenideindikator
- Digitale piekindikator Digitale bandteller
- Bandlengte indikator Mechanismefunktie indikator
- NR DEEFAT indikator MPX filterindikator (MPX FILTER) 18 Dolby ruisonderdrukkingsfunktie indika-
- tor (DOLBY NR) (1) Meeluisterindikato (INPUT LEVEL)
- l het opnameniveau met deze regelaar in. Uitwerptoets (EJECT)
- ndrukken om de cassetteho A Hoofdtelefooneansluiting (PHONES) Sluit de hoofdtelefoon (met een impedantie van 8 Ohm tot 1 kOhm) san
- (9 Hoofdtelefoonragelaar (PHONES LEVEL) (Zie blz. 26.)
- Dolby (DOLBY NR)
- Only HX PRO schakelear (Zie blz 46.) Te gebruiken bij het opnemen van bronnen met veel hoge frakwentiekomponenten.

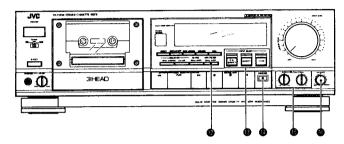
- ♠ Interruptor del temporizador (TIMER) Cuando se utiliza un temporizador opcional, se puede grabar y reproducir a la hora deseada. (Vea la página 50.)
- Interruptor de alimentacion (POWER) Portacassette Sensor remoto (REMOTE SENSOR) Recibe las señales infrarrojas transmiti-
- das dasda al control remoto Indicador de múltiples mados (MULT!
 MODE DISPLAY)
- Indicador de tiempo restante de cinta
 (REMAIN)
- (2) Indicador de memoria (MEMORY) Medidor de nivel de cresta
- A todicador de quia de prabación Indicador digital de cresta) Indicador de cinta
- 7) Contador digital Indicador de duración de cinta
- ndicador de modo de mecanismo 10 Indicador HX PRO
 - Indicador NR DEFEAT Indicador de filtro MPX (MPX FILTER) Indicador de modo DOLBY NR (1) Indicador de monitoreo
 - (INPUT LEVEL) Ajuste el nivel de grabación con este control
 - Botón de expulsión (EJECT) Presione para abrir el portacassette
 - (3) Jack para auriculares (PHONES) Conecte los auriculares (con una impedancia
 - Control de nivel de auriculares (PHONES LEVEL) (Vea la página 26.)
 - Interruptores de sistema reductor de ruido (DOLBY NR)
 - 1 Interruptor Dolby HX PRO (vea la página 46.)
 - Se utiliza para grabar fuentes que con-tengan varios componentes de altas

■ Timeromkopplare (TIMER)

Med en extra tillkommande timer kan in spelning och avspelning göras vid önskad tid. (Se sid. 50.)

- Strömställere (POWER)
- Kassettfack
 - Fjärrsensor (REMOTE SENSOR) Här mottas de infraroda lludsionalerna från fjärrkontrollen
- Funktionindikatorer (MULTI MODE DIS-
- (I) Aterstående bandtidsindikering (RE-MAIN)
- (2) Minnesindikator (MEMORY) Toppnivåmätare
- Inspelningsledtal Digital toppnivåindikator Bandtypsindikering
- Bandräkneverk Bandlängdsindikering
- Randoångsindikering HX PRO indikator NR DEFEAT indikator
- 2) MPX filterindikator (MPX FILTER) S DOLBY NR indikator (14) Medhörningsindikator
- (Insignalsnivåkontroll (INPUT LEVEL)
- Används för inställning av inspelningsnivån. Trycks in för att öppna kassettfacket.

 B Hörtelefonuttag (PHONES)
- För anslutning av ett par hörtelefoner (med en impedans på 8 ohm till 1 kohm!
- Hörtelefonnivåkontroll (PHONES ! FVEI)
- Brusreduceringsomkopplare (DOLBY NR) Omkopplere Dolby HX PRO (Se sid. 46.) Används vid inspelning av källor som innehåller högs frekvenskomponenter,



MPX FILTER switch

The MPX filter functions when the tape is recorded using the Dolby NR system. Normally, set this switch to OFF. When an FM stereo broadcast is to be recorded using Dolby NR. set this to ON to prevent the Dolby NR circuit from malfunctioning totherwise the sound quality could deterio

■ INPUT SELECT switches and indicators Press these to set to the input you want to record. The corresponding indicator will

CD DIRECT: When recording directly from a CD player.

When recording directly from other equip-I INE:

When recording from a stereo amplifier.

MONITOR button When recording, set to SOURCE to monitor

the sound just before it is recorded. Set to TAPE to monitor the sound recorded on the tape. (See page 41.)

Calibration controls (REC CAL) To adjust the recording bias and sensitivity according to the tape to be used. If adjustment is not performed, set to the

BALANCE control

MPX-Filterschalter (MPX FILTER) Die MPX-Filterfunktion ist für den Aufnahmebetrieb einer UKW-Stereosendung bei Dolby-Rauschunterdrückung vorgesel

diesem Fall auf ON stellen, damit die Dolby Rauschunterdrückung einwendfrei arbeitet (andernfalls kann es zu Klangqualitätsbe einträchtigungen kommen). Andernfalls auf OFF stellen.

Eingangswahlschalter und -anzeigen (INPUT SELECT)

Die gewünschte Aufnahme-Signalquelle anwählen Die entsprechende Anzeige leuchtet: CD DIRECT:

Direktaufnahme von einem CD-Player. DIRECT:

Direktaufnahme von einem anderen Gerät. LINE Aufnahme von einem Stereo-Verstärker.

Toniberwachungstate (MONITOR)
Bei Aufnehme wird bei Position SOURCE

der Ton der Signalquelle gehört. Bei Posi-tion TAPE wird das aufgezeichnete Signal (Siehe Seite 41.)

 Kalibrierungsregler (REC CAL)
 Für die Einstellung der Aufnahme-Vormagnetisierung und -Empfindlichkeit entenrechend der verwendeten Bandsorte. Bei Nichtverwendung auf die Mittelposition

Balanceregier (BALANCE)

Commutateur de filtre MPX (MPX FILTER) Le filtre MPX fonctionne quand la bande est enregistrée en utilisant le système de réduction de bruit Dolby. Normalement, placer ce commutateur sur OFF. Pour enregistrer

une émission FM stéréo en utilisant la réduction de bruit Dolby, le placer sur ON pour éviter un mauvais fonctionnement du circuit de réduction de bruit Dolby (sinon la qualité du son peut se dégrader).

Sélecteurs d'entrée et indicateurs (INPUT SELECT)

Appuyer pour chaisir l'entrée que vous voulez enregistrer. L'indicateur correspondant s'allumera. CD DIRECT:

Pour enregistrer directement à partir d'un lecteur de disque audionumérique. DIRECT:

Pour enregistrer directement à partir d'un autre appareil.

Pour enregistrer à partir d'un amplificateur

Touche monitour (MONITOR)

En enregistrent, placer sur SOURCE pour contrôler le son juste avant son enregistre-ment. Placer sur TAPE pour contrôler le son enregistré sur la bande. (Voir page 41.)

Commandes d'étalonnage (REC CAL)
Pour régler la polarisation d'enregistrement
et la sensibilité en fonction de la bande à utiliser. Si le réglage n'est pas effectué, placer sur la position centrale

Commende de belence (BALANCE)

MPX filterschakeleer (MPX FILTER)

Het MPX filter funktioneert wanneer de cassette opgenomen wordt met het Dolby ruisnoderdrukkinossysteem. Zet deze schakelaar gewoonlijk op OFF (uit). Zet de schakelaar gewoonijk op OFF tuitt. Zet de schake-laar op ON (san) bij opnemen van een FM stereo uitzending met gebruikmaking van het Dolby ruisonderdrukkingssysteem om te voorkomen dat dit systeem niet juist funktioneert (de geluidskwaliteit kan anders achteruitgaan).

Ingengskeuzeschakeleers en -indikators (INPUT SELECT) Indrukken om de op te nemen ingangsbron

in te stellen. De korresponderende indikator licht op.

Bij direkt opnemen van een kompakt diskspeler.

Bij direkt opnemen van andere apparatuur. LINE:

Bil opnemen van een stereo versterker.

Meeluistertoets (MONITOR) Zet deze tijdens hot opnemen op SOURCE om het geluid te beluisteren voordat dit werd opgenomen. Op TAPE zetten om het oo de cassette opgenomen geluid te beluisteren. (Zie blz. 42.)

ljkingsregelaars (REC CAL) Om de consmevoorspanning en -gevoeligheid aan te passen aan de gebruikte cessette Indian deze hilstelling niet wordt uitgevoerd, zet dan de schekelser in de middenstand

Balansregelaar (BALANCE)

Interruptor de filtro MPX (MPX FILTER)
El filtro MPX funcione cuando la cinta está grabada con el sisteme reductor de ruido Dolby. Normalmente, aiuste este interruptor en OFF. Cuando se graba una emisión estéreo por FM con el sistema Dolby, colóquelo en ON para prevenir que el circuito Dolby funcione incorrectamente

ide la contrario la calidad del sonido podria ■ Indicadores y selectores de entrada (INPLIT SELECT)

Presiona éstos para seleccioner la entrada que Ud. desee grabar. Se encenderá el indicador corres

Cuando se graba directamente de un tocadiscos compacto. DIRECT:

Cuando se graba directamente de otros LINE:

Cuando se graba del amplificador estéreo.

Botón de monitoreo (MONITOR) Cuando realice una grabación, ajústelo en SOURCE para monitorear el sonido justo antes de que se grabe. Colóquelo en TAPE pera monitorear el sonido grabado en la cinta (Vea la página 42.)

Controles de celibración (REC CAL) Para ajuster la polarización de graba-ción y sensibilidad acorde con el tipo de cinta a usarse. Si no realiza el ajuste, colóquelos en la posición central

Control de equilibrio (BALANCE)

MPX FILTER omkopplare

MPX filtret träder i funktion när bandet spelas in med Dolby brusreduceringssystem. Normalt skall denna omkopplare vara i läget "OFF". Ställ den på "ON" vid inspelning av en FM stereosändning med Dolby brusreduceringssystem så att brusreducerings kretsen inte fungerar fel (med försämrad (iccdkvalitet)

● Ingångsväljare med indikatorer (INPUT SELECT)

Trycks in för att välia vilken ingångsignal som skall spelas in och respektive indikator

CD DIRECT: Vid direktinspelning från en CD-spelare.

Vid direktinspelning från en annen kom ponent. LINE:

Vid inspelning från en stereoförstärkare.

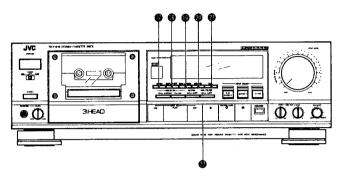
Medhärningitanpant (MONITOR)

Ställs i läge "SOURCE" för återgivning av ijudkällan och i "TAPE" för medhörr av det just inspelade ljudet, (Se sid, 42.)

 Kalibraringskontroller (REC CAL)
 Ställer in inspelningsblas och känsligher efter det bend som används. Skall stå i

mittläge när de inte används.

Balanskontroll (BALANCE)



RESET button DISPLAY button

Select the mode of the digital counter. This button is also used to switch off the indications in the display window during recording or playback.

TAPE LENGTH button

Use this button when you want to check the remaining tape time.

Use this button to specify the position at which you want the tape to stop in rewind,

etc. (See page 47.) CALL button (Digital peak) (See page 33.) Cassatte operation buttons

Press to rewind the tape

PLAY: Press to start recording/playback. Press button for music scanning.

Press to fast forward the tape.

Press to ston the tane

Press the PLAY button while pressing this button to start recording, and press to leave an appropriate non-recorded section.

[[(peuse):

Press to stop the tape temporarily. Press the PLAY button to release the pause mode, Press this together with O REC/ BEC MITE button before starting recording to enter the record-pause mode.

Rückstelltaste (RESET)
Anzeigetaste (DISPLAY)

Für die Betriebsertvorwehl des numerischen Zählwerks. Mit dieser Taste kann zudem die Displayfeldanzeige bei Aufnahme Wiedergebe abgeschaltet werden.

Bendlängentaste (TAPE LENGTH)

Diese Taste verwenden, wenn die Restband-länge überprüft werden soll. rtesta (MEMORY)

Mit dieser Taste kann die Bandposition bestimmt werden, bei der die Umspulfunktion (etc.) automatisch abgebrochen werden soll, (Siehe Seite 47.)

Abruffacta (CALL) (Siehe Seite 33.) Cassettenbetrieb-Funktionstasten

Für Rückspulbetrieb betätigen.

PLAY (Wiedergabe):
Zum Aufnahme/Wiedergabestert betätigen. Zusammen mit Taste ◄◄ oder ►► betätigen, um Musik-Suchlauf durchzu-

>> (Vorunulen):

Für Vorspulbetrieb betätigen. # (Stop):

O REC/REC MUTE (Aufnahme/Stummauf-

nahme): Zum Aufnahmestart diese Taste pedriickt halten und die PLAY-Taste betätigen. Wird nur diese Taste gedrückt, erfolgt Stummaufnahme.

Zur zeitweiligen Bandlaufunterbrechung betätigen. Zur Abschaltung der Pausen-funktion die PLAY-Teste betätigen. Diese Taste zusammen mit O REC/REC MUTE-Taste betätigen, um auf AufTouche de remise à zéro (RESET) Touche d'affichage (DISPLAY)

Sélectionner le mode du compteur numérique. Cette touche est également utilisée nour éteindre les indications dans la fenêtre d'affichage pendant l'enregistrement ou la lecture

Touche de longueur de bende (TAPE Utiliser cette touche quand vous voulez vérifier la durée de bande restante.

Touche de mémoire (MEMORY) Utiliser cette touche pour définir le position où vous voulez que la bande s'arrête en

réembobinage, etc. (Voir page 47.)

Touche d'appel (crête numérique) (CALL)

(Voir page 33.)

 ⊕ Touches de fonctionnement de le cassette
 ◄◄ (réembobinage). Appuyer pour réembobiner la bande.

PLAY (lecture): Appuver pour commencer l'enregistre ment/lecture. Appuyer sur cette touche

avec la touche 📢 ou 🕪 pour la recherche musicale.

Presser pour avancer rapidement la bande

m (areft):

Appuyer pour arrêter la bande. OREC/REC MUTE (enregistrement/enre

gistrement silencieux): Appuver sur le touche PLAY tout en appuyant sur cette touche pour commencer à enregistrer, et appuyer pour laisser une section non enregistrée convenable.

Presser nour arrêter momentanément la bande. Presser la touche PLAY pour relâcher le mode de pause. Presser cette

touche avec la touche O REC/REC MUTE avant de commencer l'enregistrement, pour entrer en mode de pause Muisteltoets (RESET) DISPLAY toets

Stel de funktie van de digitale bandteller in Deze toets wordt tevens gebruikt om de aanduidingen in het displayvenster uit te schakelen tijdens opnemen en weergeven.

Bandlengtetoets (TAPE LENGTH) Gebruik deze toets om de resterende bandlengtetijd te kontroler

■ Gehausentnets (MEMORY)

Gebruik deze toets om de plaats te specficeren waar de cassette bij het terugspoelen, enz, dient te stoppen. (Zie blz. 48.)

Oproeptoets (CALL) (digitale piek) (Zie blz.

Bandtrensporttoetsen

√-(terugspoelen):
 Indrukken om de band terug te spoelen.

PLAY (weergave): Indrukken om ognemen/weergeven te beginnen. Druk deze toets samen met de

Indrukken om de cassette vooruit te spoelen.

Indrukken om het bandtransport te

stoppen.

O REC/REC MUTE (opname/opnamedem

Druk tegelijkertijd op de PLAY toets en op deze toets om het opnemen to beginnen: druk deze toets in om een niet-op genomen gedeelte (interval) in te lassen. Bi(nauze):

Indrukken om het bandtransport tijdelijk te onderbreken. Druk op de PLAY toets om de pauzefunktie uit te schakelen. Druk teglijkertijd met deze toets op de
O REC/REC MUTE toets alvarens de opname te starten om de opnamepauze funktie in te schekelen

 Botón de reposición (RESET)
 Botón de indicaciones (DISPLAY)
 Seleccione el modo del contador digital. Este botón se utiliza también para anular indicaciones en el display durante la grabación o reproducción. Botón de duración de cinta (TAPE

LENGTH Utilice este botón cuando Ud. quiera veri-

ficar el tiempo restante de cinta.

Botón de memoria (MEMORY) Utilice este botón para especificar la posi

ción en la cual desea que la cinta se detenga durante el rebobinado, etc. (Ves la página

Botón de recuperación (CALL) (cresta

digital) (Vea la página 34.)

Rotones de operación del cases Presione para rebobinar la cinta

PLAY (Reproducción):

Presione para comenzar a grabar o reproducir. Presiónelo con cualquiera de los botones de 🛹 o 📂 para la búsqueda musical.

►► (Avance rápido): Presione para avanzar rápidamente la cinta.

■ (Perede):

Presione para detener la cinta OREC/REC MUTE (Grabación/silencia miento de grabación)

Presione el botón PLAY mientras presiona este boton para comenzar a grabar, y presióneto para dejar una sección sin orabar adecuada

(Pausa):

Presione para detener temporalmente la cinta. Presione el botón PLAY para liberar el modo de pausa. Presione éste iunto con el botón O REC/REC MUTE antes de comenzar la grabación para establecer el modo de pausa de grabación

Nollställningstangent (RESET)
Visningsväljare (DISPLAY)

Används för att välja ved som skall vises i räkneverket. Man kan också ta bort indikeringen i teckenfönstret vid inspelning eller avspelning.

Bandlängdstangent (TAPE LENGTH) Används vid kontroll av den återstående

Minnestangent (MEMORY)

Används för att bestämma det ställe på bandet där det skall stanna vid backspolning neu (Se sirl 4R)

Aterkaliningstangent (Digitalt toppvärde) (CALL) (Se sid. 34.)

Kassettdelens funktion

Trycks in for att snahht snota hander bakāt.

PLAY (avapelning): Trycks in för avspelning eller inspelning ay handet Trycks in tillsammans med antingen deller >> tangenten för

musiksökning. ►► (framspoining) Trycks in för att snabbt spola bandet

(stopp) Trycks in för att stanna bandtransporten OREC/REC MUTE (inspelning/inspelnings-

blockering) Tryck in PLAY tangenten samtidigt med denna tangent för inspelning. Trycks även in för att skapa en oinspelad intervali på bandet.

Trycks in för tillfälliga avbrott. Tryck PLAY tangenten för att koppla bort pausläget. Tryck in den tillsammans med OREC/REC MUTE tangenten för inspelningsstart för att ställa apparaten i

inspelningspausläget.

CASSETTE LOADING

- 1. Press the EJECT button to open the cassette holder.
- 2. Load a cassette as shown.
- 3. Press the cassette holder to close it. Be sure to obtain the click sound to close the holder securely

FINLEGEN EINER CASSETTE

- 1. Zum Öffnen des Cassettenhalters die EJECT-Taste drücken.

 2. Eine Cassette wie gezeigt einlegen.
- Zum Schließen den Cessettenheiter an-drücken. Der Cessettenhalter ist nur dann fest geschlossen, wenn ein Einrastgeräusch wahrnehmbar ist,



If the power is switched off while the tape is moving, you might not be able to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette

Wied des Gerät bei eingeschaltetem Bandtransport abgeschaltet, ist gegebenenfalls die Correttenentnehme nicht mödlich in diesem Fall des Gerät erneut einschalten, dann die

MISE EN PLACE DE LA CASSETTE

- 1. Appuyer sur la touche EJECT pour ouvrir le porte-cassette
- Inserer une cassette comme indiqué. Appuyer sur le porte-cassette pour le fermer. S'assurer que la porte fait entendre un déclic quand your fermez le compartiment.

Load the cassetts with the tens-exposed edge down. Die Cassette mit der Bandöffnung nach unten

einlegen. Charger la cassette, le côté où la bande est exposée dirigé vers le bas. Zet de cassette in met de bandopeningan naar

Carque el cassette con el trozo de cinta

expuesto hacia abajo.
Satt i kassetten med den ñonna gaveln vănd nedăt.

Demograph.

Si l'alimentation est coupée alors que la bande est en mouvement, il est possible que vous ne puissiez pas retirer la cassette. Si cela arrive, remettre l'alimentation avant d'essayer de retirer la cassette.

INZETTEN VAN DE CASSETTE

- 1. Druk de EJECT toets in, zodat de houder
- 2. Zet een cassette in zoals aangegeven in de tekening.
- Druk op de cassettehouder zodat deze dicht gaat. Als u een klik hoort is de houder goed gesloten.

COLOCACION DEL CASSETTE

- 1. Previone al beste E IECT pero abrir al porte.
- Cargue un cassette según indice el dibujo. 3. Presione el portacassette para cerrarlo. Asegúrese de que la portezuela esté bien

ISÄTTNING AV KASSETT

- 1. Tryck in EJECT tangenten för att öppna
- kassettfacket. Sätt i kassett enligt figuren.
- 3. Stäng kassettfacket för hand. Se till att kassettfacket stängs till med ett "klick".

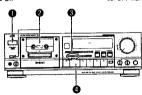
Mogelijk kan de cassette niet uitgenomen worden wanneer de spanning uitgeschakeld wordt terwiil de hand nog getransporteerd werd alvorens de cassette uit te nemen.

Si se apaga la unidad mientras la cinta se esté moviendo es posible que no pueda extraer el cassette. Si esto ocurriese, conecte la unidad quevamente antes de intentar retirar el cas

Om strömmen frånkopplas medan bandet går kan det bli omöjligt att ta ut kassetten. Koppla i så fall till strömmen igen.

PLAYBACK

- Operate in the order of the numbers in the Set the TIMER switch to OFF before switch-
- ing the power on.



0

WIEDERGABE

dungen vorgehen -Vor Geräteeinschaltung den TIMER-Schalter

LECTURE

0

- Suivre l'ordre des numéros dans l'illustra-Placer le commutateur TIMER sur OFF avant
- de mettre l'alimentation

6

ø

- Press the POWER switch to set to on. Load a prerecorded cassette.

 (Automatic slack tape removal operation)
- Press the same DOLBY NR switch that was
- pressed when the tape was recorded.

 Press the PLAY button to start playback.
- To stop playing back midway Press the (stop) button.
- Automatic slack tape removal operation When a cassette is inserted, slack tape will be taken up automatically. This will also happen if the power is switched on with a tape loaded.
- Mit dem POWER-Schalter einschalten.
 Eine bespielte Cassette einlegen.
 (Automatische Bandstraffung)
- S Falls erforderlich, mit einer der DOLBY NR-Tasten die Dolby Rauschunterdrückung
- zuschalten, die bei der Aufnahme verwendet Zum Wiedergabestart die PLAY-Taste
- betätigen. e Wiedergebestop vor Erreichen des Bendendes

Die # (Ston)-Taste betätigen.

Automatische Bendstraffung: Nach Einlegen einer Cassette wird Benddurch-hang automatisch beseitigt. Dies geschieht gleichfells bei Einschalten des Geräts, wenn bereits eine Cassette eingelegt ist.

- Appuyer sur l'interrupteur POWER pour mettre l'alimentation. Mettre en place une cassette préenregistrée.
- (Recupération automatique du jeu dans la Appuver sur le même commutateur de
- réduction de bruit DOLBY NR qui a été pressé lors de l'enregistrement de la bande.

 Appuyer sur la touche PLAY pour com-
- mencer la lecture
- e Pour arrêter la lecture au milieu . . . Presser la touche R (arrêt).

Recunération automatique du leu dans la

Quand une cossette est mise en place, le jeu dans la bande sera automatiquement rattrapé. Ceci se produira également si l'alimentation est mise avec une bande en place.

WEERGAVE

- Ga volgens de genummerde volgorde in de afheelding to work -
- Zet de TIMER schakelaar op OFF alvorens

... Onere eleviendo el orden de los números de la ilustración —

REPRODUCCION

· Ajuste el interruptor TIMER en OFF antes de encander la unidad

AVSPELNING

- Gör inställningerne i nummerordning i
- •Ställ TIMER omkopplaren i läge "OFF" innan strömmen tillkopplas

- Druk op de POWER schakelaar om het toestel in te schakelen
- Leg een voorbespeelde cassette in.
- (Automatisch lusopnamend mechanisme) Druk op dezelfde DOLBY NR schakelaar die gebruikt werd bij het opnemen van de
- Druk op de PLAY toets om het weergeven
- Om het weergeven tussentijds te

onderbreken . . . Druk op de ■ (stop) toets.

Automatisch lusopnemend mechanisme: Bandlussen worden bij inleggen van een cassette automatisch opgenomen. Hetzelfde gebeurt wanneer de spanning ingeschakeld wordt terwijt een cassette ingelegd is.

- Presione el interruptor POWER para en-
- cender la unidad.

 Coloque un cassette pregrabado.
- (Ajuste automático de flojedad de cinta) Presione el mismo interruptor DOLBY NR utilizado al grabar la cinta.
- Presione el botón PLAY pera comenzar la reproducción.
- e Pare detener la reproducción durante la

Presione el botón **(**parada). Ajuste automético de flojedad de cinta

La cinta se ajustaré automáticamente, si está floia, al colocar el cassette. Esto mismo sucederá si la unidad se encendiera con el cassette

- Kopple till strömmen med POWER.
 Sätt i en inspeled kassett.
- (Automatick bandenanning) Stěll DOLBY NR omkopplaren i det låge som när bandet spelades in.

 Tryck in PLAY tangenten för att starts
- För att stopps avspelning . . . Tryck in (stopp) tangenten.

Automatisk bandspänning:

Randet snänns automatiskt när kassetten sätte i Det sker också om strömmen tillkopplas med

(No. 4308)

Auto-monitor system

 ∞ Ωo.

4308)

So that the advantages of the three-head system ran be exploited more fully, this unit uses an to the played back sound automatically by simply pressing the PLAY button. This mea that the MONITOR button doesn't have to be

e Monitoring with headpho

Adjust the volume using the PHONES LEVEL

Tonüberwachungssystem

Zur besseren Nutzung des Dreikopf-Systems arbeitet dieses Gerät mit einem Auto-Tonüberwachungssystem. Sobeld die PLAY-Taste betätigt wird, ist automatisch auf Bandwiederchaltet. Daher ist jeweils bei Wiedergabe die Benutzung der MONITOR-Taste nicht

Die Lautstärke kenn mit dem PHONES LEVE L-Regier singestellt werden.

> Headphones with standard plug Kopfhörer mit Standard-Stecker Carous d'écoute avec fiche standard ofdtelefoon met standaard stekker Auriculares con clavija estánda Hörrelefnner med standardnjugg

Régler le niveau en utilisent la commende PHONES LEVEL. PHONES ---- LEVEL

Tape counter display

When the power is first switched on, "0000" is displayed in the digital counter. When the tape starts running, this functions as a normal four-digit tape counter.

e To reset the counter to "0000"....

Press the RESET button. (The counter is also reset when the power is switched off and on

Bendzählwerkenzeige Nach Gerätseinschaltung erscheint die Anzeige "0000" in der digitalen Anzeige. Nach Bandlaufstert erfolgt normale vierstellige Bandzähl-

e Zählwerkrückstellung auf "0000"

Die RESET-Taste betätigen. (Das Zählwerk wird nach Abschaltung des Geräts gleichfalls rückspestellt.)

Quand l'alimentation est mise, "0000" est affichée au compteur numérique. Quand la bande commence à défiler, ceci fonctionne comme un compteur de bende normal à quatre chiffres. Pour remettre le compteur à "0000" . . .

Affichage du compteur de bande

Svetème de monitorage automatique

Pour pleinement pauvoir exploiter les avantages

du averame à trois tâtes, cet appareil utilise un

système de monitorage automatique qui permet

à l'utilisateur d'écouter automatiquement le son

lu en appuyant simplement sur la touche PLAY

Ceci signifie que la touche MONITOR n'a pas

à être pressée à chaque fois qu'une bande est

e Monitorage avec le casque d'écoute

Appuver sur la touche RESET, (Le compteur est également remis à zéro quand l'alimentation est coupée puis remise.)



When the tape remaining time is displayed . . .
 Press the DISPLAY button twice to return to

The display has three modes and can be switched from a tape counter display, to a remaining time display and no display, in this

e Anzeige der Randrestzeit

Die DISPLAY-Taste zweimal betätigen, um auf die Zählwerkanzeige zurückzuschalten.

Doei Anzeigehetriehserten stehen zur Verfügung und können in der folgenden Reihenfolge abgerufen werden: Zählwerkanzeige, Restzeitenzeige und keine Anzeige.

• Quand la durée de bande restante est afficháe

Appuyer deux fois sur la touche DISPLAY pour revenir à l'affichage du compteur de

L'affichage a trois modes et peut être commuté l'affichage de compteur de bande, à un affichage de la durée restante et pas d'affichage, dans cet ordre.



The indications in the display window will go off when the DISPLAY button is pressed lowever, when the deck enters a mode other than the recording and playback model (fast-forward, rewind, pause, stop), the indications will light again. The current indications are stored in memory until the power is turned off or the cassette tape is

- Even when the indications go out when the DISPLAY button is pressed, the tape counter, remaining time, meter and digital peak functions continue to operate. These can be confirmed after recording and playback.
- Die Anzeige im Displayfeld erlischt nach Betätigen der DISPLAY-Taste. Schaltet das Deck jedoch auf eine andere Betriebsert als Aufnahme oder Wiedergabe (Umspulen vorwärts/rückwärts. Pause Stop), leuchtet die Anzeige erneut. Die vorliegenden Anzeigen werden gespeichert, bis das Gerät abgeschaltet wird, bzw. die Cassette ausgeworfen wird.

 Auch nach Anzeigesbschaltung mit der
- DISPLAY-Taste arbeiten Bandzéhiwerk, Restzeitanzeige. Pegel und Spitzenpegelanzeige. diese Anzeigen wieder abgerufen werden.
- l.es indications dans la fenêtre d'affichage s'éteindront quand la touche DISPLAY est pressée. Toutefois quand la platine entre trement et de lecture (avance ranide réembobinage, pause ou arrêt), les indications s'allumeront de nouveau. Les indications courantes sont stockées en mémoire jusqu'à la coupure de l'alimentation ou l'élection de
 - Même si les indications sont étaintes quand la touche DISPLAY est pressée, les fonctions de compteur de bande, d'Indicateur de durée restante, d'indicateur et de crête numérique continuent à fonctionner. Elles peuvent être vérifiées après l'enregistrement ou la

Automatisch meeluistersysteem

Ondet de voordelen van het driekoppensysteem optimaal uitgebuit kunnen worden is dit toestel uitgevoerd met een automatisch meekvister systeem waarbij de gebruiker het weergavegebuild automotisch ben beluieteren door on de PLAY toets te drukken. Dit betekent dat de MONITOR toets niet elke maal ingedrukt hoeft te worden wanneer een cassette weergegeven

• Meeluisteren met de hoofdtelefoor Stel het volume bij m.b.v. de PHONES LEVEL

Bandtellerdisplay

"0000" wordt aangegeven in de digitale teller wanneer de spanning ingeschakeld wordt. Tijdens het transporteren van de cassette fun neert deze als een bandteller met 4 cijfers • Om de bandteller op "0000" terug te stellen

Druk op de RESET toets. (De bandteller wordt tevens teruggesteld wanneer de span-

ning uit- en ingeschakeld wordt.)

•Wanneer de resterende tijd van de bend sengeeven wordt Druk tweemsel op de DISPLAY toets om de bandtellerdisplay weer te verkrijgen.

De display heeft drie instellingen bestaande uit de bandtellersanduiding, de resterende tijdasnduiding en geen aenduiding, in deze volg-

• De aanduidingen in het displayvenster geen uit wanneer op de DISPLAY toets gedrukt wordt. De sanduldingen worden echter weer zichtbaar als een andere funktie (b.v. voorultspoelen, terugspoelen, pauze, stop) dan de opname- of weergevefunktie ingeschakeld wordt. De huidige aenduidingen worden in het geheugen vastgelegd totdat de spanning uitgeschakeld of de cassette uitgeworper

 Zeifs wanneer de DISPLAY toets ingedrukt wordt, blijven de funkties voor de bandteller, resterende tild en meter en digitale piek doorwerken. Deze kunnen dan nagegaan worden as opnemen of weergeven.

Sistema de monitoreo automático

De tal modo que las ventajas del sistema de tres cabazas puada ser totalmente aprovechado esta unidad utiliza un sistema de monitoreo automático, el cual permite al usuario escuchar reproducido automáticame mediante la simple presión del botón PLAY. Esto significa que el botón MONITOR no debe ser presignado cada vez que se reproduzca una

mitoreo con suriculares

nummente la unidadi

Ajuste el volumen usando el control PHONES LEVEL.

también se repone cuando se apaga y enciende

cinta...
Presione el botón DISPLAY dos veces pere

retorner e la indicación del contador de

El display posee tres modos y pueda con-

muterse desde la indicación de contador de

cinta, a indicación de tiempo restante a ninguna

Autometiskt medhörningssystem För att helt kunna dra fördel av systemet med tre tonhuvuden har denna apparat ett auto matiskt medhörningssystem så att avspelningsljudet återges automatiskt när PLAY tangenten trycks in. Det betyder att MONITOR tangenten inte behöver röras varje gång ett band avspates.

Medhörning med härtelfoner

Ställ in ljudnivån med PHONES LEVEL kon-

Indicación del contador de cinta

Cuando se conecta primero la alimentación, se När strömmen tillkopplas visas "0000" i visualiza "0000" en el contador digital. Cuando räkneverket. Det fungerar som ett venligt bandla cinta comienza a moverse, éste funciona como räkneverk med fyra siffror efter det bandet un contador de cinta de cuatro digitos normal. börjat gå.

• Inställning till "0000" . . . Presinne el botón RESET (El contador

Tryck in RESET tangenten. (Räkneverket nollställs också när strömmen från- och till-

e Cuendo se visualiza el tiempo restante de • När bandets återstående tid vises . . .

Tryck in DISPLAY tangenten två gånge för att åteckalla räkneverket.

Tackenförstrat har tre olika arbetssätt: bandräkneverk, återstående bandtid och ingen

e Las indicaciones en el display desaparecerán cuando se presione el botón DISPLAY. Sin embargo, cuando se establece e magnetófono en un modo que no sea el de orebeción o reproducción (avance rápido. rebobinado, pause, perada), las indicaciones se encenderán de nuevo. Las in-dicaciones actuales se almacenan en memoria hasta que se desconecte la limentación o se extraiga el cassette.

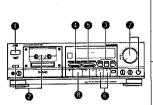
e Inclusive cuando las indicaciones desapa rezcan al presionar el botón DISPLAY, las funciones del contedor de cinta. tiempo restante, medidor y cresta digital continuarán operando. Esto podrá confirmarse después la grabación y reproduc-

- Indikeringarna i teckenfönstret försvinne när DISPLAY tangenten trycks in. Men då bendapelardäcket ställs in i något ennat läge än Inspelning och avspelning (snabb framspolning, backspolning, paus, stopp) återkommer indikeringen. Vised indikering lagras i apparatens minne tills strömmen
- frånkopplas eller kassett tas ut. Även med indikering bortkopplad med DISPLAY tangenten fortsätter funktionerna räkneverk, äterstäende bendtid, signalmätning och digital toppnivå att verka. Dessa värden kan återkallas efter avsluted inspelning och avspeining.

RECORDING

- Operate in the order of the numbers in the illustration —

 Set the TIMER switch to OFF before switch-
- ing the power on.
- . Make sure the safety tab of the cassette has not been broken off.



- Press the POWER switch to set to on,
 Load a cassette for recording. (Automatic tape slack removal operation)
- Select the recording input.

 Set the DOLBY NR switch as required.
- When recording using the HX PRO circuit, set the HX PRO switch to ON (.....). (See page 45.)

 Set to SOURCE (record-pause mode).
- Adjust the recording level. (See page 31.) The BALANCE control only works with
- line input. Press the PLAY button to start recording and monitoring automatically.

It may be unlewful to record or playback copyrighted material without the consent of the copyright owner.

AUFNAHME

0

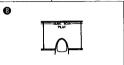
- dungen vorgehen —

 e Vor Geräterinscheitung den TIMER-Schalter
- Überprüfen, ob die Cassetten-Sicherheitszunge herausgebrochen ist. Ø

ENREGISTREMENT

- Suivre l'ordre des numéros dans l'illustre-
- e Placer le commutateur TIMER sur OFF avant de mettre l'alimentation.
- · S'assurer que la languette de sécurité de la cassette n'a pas été retirée.





- Mit dem POWER-Schalter einschalten.
 Die zu bespielende Cassette einlegen. (Automatische Bendstraffung)

- Auf SOURCE stellen (bei Aufnehmepause) Den Aufnahmepegel aussteuern. (Siehe Seite
 31.) Der BALANCE-Regler erbeitet nur für
- den Line-Eingeng.
- Zum Aufnahmestert mit gleichzeitiger Tonüberwachung die PLAY-Taste betätigen

- 27 -

- Ga volgens de genummerde volgorde in de

OPNEMEN

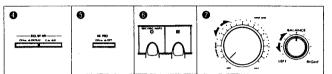
- Zet de TIMER schakelaar op OFF alvorens de spanning in te schakelen.
- · Ga na dat de veiligheidsnok van de cassette niet uitgebroken is.

GRABACION

- Opera siguiendo el orden de los números de
- Ajuste el interruptor TIMER en OFF antes
- Asegúrese de que el cassette tenga la lengüeta de seguridad.

INSPELNING

- Gör inställningerne i nummerordning i
- figuren –
 •Ställ TIMER omkopplaren i läge "OFF" innan strömmen tillkopplas.
- Se till att raderfliken på kassetten inte är bortbruten



- Appuyer sur l'interrupteur POWER pour mettre l'alimentation. Mattre en place une cassette pour l'en-
- Die Signalquelle anwählen Den DOLBY NR-Schelter wie gewünsch
- mettre en pace une cassette pour renistrement. (Le jeu dans la bande sera eutomatiquement éliminé)

 Sélectionner l'entré d'enregistrement.

 Régler le commutateur de réduction de einstellen.

 Wenn unter Verwendung der HX PRO-
- Pour enregistrer en utilisant le circuit HX (Siehe Spite 46)
 - ON (-). (Voir page 45.)

 Régler sur SOURCE (mode de pause d'enregistrement).

 Régler le niveau d'enregistrement, (Voir
 - page 31.) La commande BALANCE fonctionne seulement avec l'entrée ligne.

PRO, placer le commutateur HX PRO sur

bruit DOLBY NR comme voulu.

Appuyer sur la touche PLAY pour commencer automatiquement l'enregistrement et le contrôle.

AVERTISSEMENT:

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- Druk op de POWER schakelaar om het toestel in te schakelen.
- Leg een cassette in voor het opnemen.
 (Automatisch lusopneemmechanisme funktioneert)
- Stel de opnamebron in
- Tet de gewenste DOLBY NR schakelaar in.

 Zet de HX PRO schakelaar op (.....) om op te nemen met het HX PRO circuit. (Zie blz. 46.)
- Op SOURCE (opnamepauzefunktie) zetten. Stel het opnameniveau in. (Zie blz. 32.) De BALANCE regelaar funktioneert enkel bij
- binnenkomende linjnsignalen.

 Druk op de PLAY toets om het opnemen

WAARSCHUWING:

Het zonder toestemming van de auteur on nemen of afspeien van door auteursrechter bescherrod materiaal kan onwettig ziln.

- Presione el interruptor POWER para encender la unidad.
- Coloque un cassette para grabar. (Automáticamente funcionará el sistema de ajuste de cintal
- eleccione la entrada de grabación Seleccione la entrada de grabación.

 Fije el interruptor DOLBY NR tal como se
- Cuando efectúe grabaciones con el circuito HX PRO, coloque el interruptor HX PRO en ON (---). (Vea la pág. 46.)

 Ajuste en SOURCE (mode de peusa de
- Ajuste el nivel de grabación. (Vea la pág. 32) El control BALANCE solamente funcionará
- con la entrada de linea.

 Pressione el botón PLAY pere inicier la

ADVERTENCIA:

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- Koppla till strömmen med POWER.
 Sätt i en kassett för inspelning. (Automatisk handanänning)
- Ställ DOLBY NR omkopplaren i önskat
- Vid inspelning med HX PRO kretsen ställs HX PRO omkopplaren i läge "ON" (-). (Se sid 46.)
- Ställ I läget SOURCE (inspelnings pausläge). Ställ in inspelningspelningsnivån. (Se sid. 32.) BALANCE kontrollen fungerar endast
- med linjeingången.

 Tryck in PLAY tangenten för att börja

VARNING:

Apparaten får inte appändes för att konlere material belagda med upphovsträtt, De flesta förinspelade band är skyddade med denna rätt.

Uso de la función de ajuste de calibra-Kalibreringsfunktioner (inställning av Gebruik van de likingsregelfunktie (afrecelen van oonamevoorspanning en ción (Aiuste de la polarización y nivel de inspelningsnivå och bias) grabación) Er zijn verschillende soorten cassettes en bun

Existen varios tipos diferentes de cintas, y sus características difieren ligeramente inclusive cuando correspondan al mismo tipo Generalmente, las características de corriente e joualación de polarización apropiadas para el tipo de cinta utilizado pueden obtenerse modiante el risteme de selección automética de cinta. Sin embargo, para optimizar la respuesta de la cinta a utilizarse, es mejor ajustar la polarización de grabación de tal modo que distorsión se mínimice y las características de respuesta de fracuencia sean lo más uniforme

Det finns många kassettbandssorter vars karakteristika skiljer sig lite från varandra trots att de är av samma typ. Normalt kan korrekt förspänning (bias) och frekvensutjämning (equalization) erhållas för respektive bandtyp genom det automatiska bandvalssystemet. Men för att ontimera det använda handets frekvensområde är det bäst att ställa in förspänningen vid inspelningen så att distorsion minimeras och frekvens.

D-V1010

A/B/C/E/G/J/U

Use of calibration adjustment function (adjustment of recording bias and level)

There are various types of cassette tapes, and their characteristics differ slightly even when they are of the same type. Generally, the bias current and equalization characteristics suitable for the type of tape being used can be obtained by the Auto Tape Select system. However, to dimine the resource of the tage to be used it is better to adjust the recording bias so that distortion is minimized and the frequency characteristics are as flat as possible.

Verwendung der Kalibrierungsfunktion (Einstellung von Aufnahmevormagnetisierung und -pegel)

Für Musik-Cassetten werden verschiedene Bandsorten angeboten. Der für die jeweilige Bandsorte erforderliche Vormagnetisierungsstrom und Entzerrungswert wird über des automatische Bandsortensystem berücksichtigt Doch kungen innerhalb der charakteristischen Kenndaten vorliegen, ist die optimale Anpassung an die Bandeigenschaften erst dann gegeben wenn der Vormegnetisierungsstrom so eingestellt wird, daß Verzerrungen minimiert werden und ein bestmöglicher linearer Frequenzgang erzielt wird.

Utilisation de la fonction de réglage d'étalonnage (réglage de la polarisation et du niveau d'enregistrement)

Il y a plusieurs types de bandes de cassette et leurs caractéristiques sont légèrement dif férentes même dans le même type. En général, le courant de nolarisation et les caractéristiques de correction adaptés pour le type de bande à utilleer neuvent être obtenus nar le système de sélection automatique de bande. Toutefois, pour optimiser la réponse de la bande à utiliser. il est mieux de régler le courant de polarisation pour obtenir une distorsion minimisée et des caractéristiques en fréquence aussi plates que



● Compensate the tape sensitivity within ±3 ● Die Bendempfindlichkeit im Bereich von dR Adjust so that the recording and playback

frequency characteristics are as flat as possible.

Make a test recording and adjust the sound quality and tensitivity

- 1 Play the source to be recorded with the amplifier set for tape monitoring. 2. Press the O REC/REC MUTE and PLAY
- buttons to record the source sound. 3. Adjust the recording bias with the REC
- CAL-BIAS control.

 Press the MONITOR button to set it to TAPE. Adjust the calibration control so that the same tone is obtained as far as possible, comparing the sound quality obtained with the MONITOR button in the SOURCE position with that obtained with the button in the TAPE position
- 4. Adjust the recording level with the REC CAL-LEVEL control. Adjust so that the same volume is obtained. comparing the volume obtained with the MONITOR button in the SOURCE position with that obtained with the button in the TAPE position, by alternating the setting of the MONITOR button.

With these adjustments, the optimum bias has been obtained and you have compensated for the tape's sensitivity. Now, after rewinding

. When the hiss is too low or too high the frequency response is as shown in the follow-

±3 dB einstellen. So einstellen, daß Aufnahme und Wiedergabenegel identisch sind.

Adjust so that distortion is minimized and the So einstellen, daß Verzerrungen minimiert werden und ein möglichst lienerer Frequenzgang vorliegt.

> Vorgehensweise bei der Einstellung Ein Probesufnahme durchführen und die Klanggualität und Empfindlichkeit einstellen.

- Die für die Aufnahme vorgesehene Signal-quelle abspielen. Der Verstärker muß hierbei auf Band-Signalquelle geschaltet
- 2. Mit der O REC/REC MUTE- und PLAY-Taste auf Aufnahme schalten.
- 3. Die Aufnahme-Vormagnetisienung mit dem REC CAL-BIAS-Regier einstellen. Mit der MONITOR-Teste auf TAPE schalten. Die Kalibrierung so vornehemen, daß bei Umschaltung der MONITOR-Teste zwischen Position SOURCE und TAPE im Vergleich Klangunterschiede weitgehend
- unterbleiben. Den Aufnahmepegel mit dem REC CAL-LEVEL-Regler aussteuern.

 Mit der MONITOR-Taste zwischen SOURCE und TAPE umschalten, um beide Signale mitsinander vetgleichen zu können und für beide Positionen die gleiche Lautstärke

Nech diesen Einstellungen sind die Vorma-gnetisierung und die Bandempfindlichkeits-Kompensation wie erforderlich eingestellt. Nach Rückspulen des Bandes die Aufnahme

 Bei zu geringer oder zu starker Vormagnetisierung liegt der Frequenzgang wie folgt vor:

- 29 -

Pour compenser la sensibilité de bande de +3 dB. Régler pour que les niveaux d'enregistrement et de lecture soient les mêmes.

Régler pour que la distorsion soit minimale et les caractéristiques de fréquences spient les plus uniformes possibles

Faire un test d'enregistrement et régler

- 1, Lire la source à enregistrer avec l'emplificateur réglé pour le monitorage de
- 2. Appuver sur les touches O REC/REC MUTE et PLAY pour enregistrer le son de
- Régler la polarisation d'enregistrement avec la commande REC CAL -RIAS Appuyer sur la touche MONITOR pour la sur TAPE. Aiuster la commande d'étalonnage pour obtenir la même tonalité le plus loin possible, en comperant la qualité du son obtenue svec la touche MONITOR dans la position SOURCE avec celle obtenue
- quand is touche est dans is position TAPE. Régler le niveau d'enregistrement avec la commande REC CAL-LEVEL Ajuster pour obtenir le même volume, en comparent le volume obtenu ever la touche MONITOR dans la position SOURCE avec celul obtenu quand la touche est dans la position TAPE, en alternant le réglage de

In touche MONITOR

Avec ces réglages, la polarisation optimale a été obtenue et vous avez compensé la sansibilité de la bande. Alors, après réemboblnage de la bande, commencer l'enregistrement.

 Quand la polarisation est trop faible ou trop forte, la réponse en fréquence est comme montrée dans le dispramme suivant.

Stel de bandgevoeligheid binnen ±3 dB in. Voer de instelling zodanig uit dat de opnameen weernaveniveau's hetzelfde zijn.

karakteristieken verschillen enigszins zelfs

wanneer ze van dezelfde soort zijn Gewoon.

lijk kunnen de voor het type cassette geschikte

voorspanning en egalisatie karakteristieken verkregen worden met het automatische bend-

soortkeuzesysteem Om echter de respons van

de gebruikte cassette te ontimaliseren is het

zodet de vervorming minimaal is en de frekwen-

tie karakteristieken zo viak mogelijk

Noer de instelling zodanig uit dat de vervorming minimaal is en de frekwentiekarakteristieken zo vtak mogelijk zijn.

Uitvoeren van de instelling

Maak een testopname en regel de geluidskwalf-teit en gevoeligheid af.

- 1. Speel de op te nemen bron af en stel de versterker in voor afficieteren van de cassette.
- 2. Druk tegelijkertijd op de () REC/REC MUTE on PLAY toetsen om het brongeluid op te nemen. 3 Renel de opnemevoorspanning af m.b.v. de
- REC CAL-BIAS regelear.

 Druk op de MONITOR toets om deze op
 TAPE in te stellen. Stel de lijkingsregeling zodanig in dat zoveel mogelijk dezelfd geluidskwaliteit wordt verkregen. Vergellik dit met het originele geluid dat verkregen kan worden door de MONITOR toets in respektievelijk de TAPE en SOURCE stand to zetten.
- Stel het opnamenivaeu bij m.b.v. de REC CAL-LEVEL regelaar. Zodanig afregelen dat hetzelfde volume
- verkregen wordt door het volume met de MONITOR toets in de SOURCE stand to vergelijken met het volume verkregen met deze toets in de TAPE stand.

Na uitvoeren van deze instellingen is de optimale voorspanning verkregen en is tevens gekompenseerd voor de gevoeligheid van de recetto Ronin nu no de ressette te hebben terruggespoeld met opnemen.

• De frekwentierespons is zoals sangegeven in de volgende afbeelding als de voorsp te hoog of te laag ingesteld staat.

±3 dB. Ajuste a fin de que los niveles de

grabación y reproducción sean los mismos Ajuste a fin de que la distorsión se minimice Ställ in så att distorsionen blir minimal och y las características de frecuencia sean lo más uniformes posibles.

Cómo efectuar el ajuste

Realice una grabación de prueba y ajuste la calidad del sonido y sensibilidad

- 1. Reproduzca la fuente que va a grabar con el amplificador ajustado para el monitoreo de 2 Presions los botones O REC/REC MUTE
- v PLAY pera grabar el sonido de la fuente. Ajuste le polarización de grabación con el control REC CAL-BIAS.
- Presione el botón MONITOR para ajustarlo en TAPE Aiuste el control de celibración a fin de obtener en lo posible al mismo tono, comperando la calidad sonora obte-nida con el botón MONITOR en la posición SOURCE con la obtenida con el botón en la posición TAPE.
- Ajuste el nivel de grabación con el control REC CAL LEVEL. Ajuste de tal modo que se obtenza el mismo
- volumen, comperando el volumen obtenido SOURCE con el obtenido con el botón en la posición TAPE, alternando la posición de botón MONITOR

Con estos aiustes, obtendrá la óptima polari zación y hebrá compensado la sensibilidad di la cinta. Ahora después de rebobinar la cinta. comience la grabación

• Cuando la polarización es muy baje o alta, la respuesta de frecuencia es como se muestra en el siguiente diagrama.

① Compense la sensibilidad de la cinta dentro ② Bandkänsligheten kan regleras inom området ±3 dB, Gör inställningen så att att inspelnings-

och avspelningsnivåerna är lika. frekvensgången så rek som mölligt.

Gör en provinspelning för att ställa in liudets

- 1. Spela källan som skall spelas in med förstärkaren inställd för medhörning.

 Tryck in O BEC/BEC MUTE och PLAY
- tangenterna för att spela in källjudet. Regiera inspelningsbias med REC CAL-
- BIAS kontrollen. Tryck in MONITOR tangenten i läge TAPE, Ställ in kalibreringskontrollen så ett ljudets ton från de båda källorne blir så lika som möilint. Det går lätt att jämföra genom att trycka MONITOR tangenten melian ianena SOURCE och TAPE.
- Reglera inspelningsnivån med REC CAL-LEVEL kontrolls Ställ in den så att samma liudnivå återges-Stell in den sa att semma ijudniva aterger-från båda källorna genom att trycka MONITOR tangenten mellan lägena SOURCE och TAPE och jämför.

Med denna reglering har optimal frekvensförspinning eller higs ställts in och även handets känslighet har kompenserats. Spola nu tillhaka bandet och starte inspelningen

• När bias är för hög eller låg blir frekvensgången som anges i nedanstående diagram





DIGITAL PEAK indicator and its use in recording level adjustment

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level* of the tape to

- When the recording level is too low, the hiss
- noise inherent in the tape will be conspicuous.

 When the recording level is too high, exceeding the saturation level, the recording will contain cracking noise and will be distorted.

The saturation level differs with the type of tape. This unit automatically indicates the type of tape and the peak level for recording. Set the recording level according to these indica-

• Seturation level means:

When the recording input is increased gradually, the output increases proportionally. However, once it reaches a certain level, the output cannot increase any further. Moreover, the output will be distorted if the input is increased beyond this point. The level at which this occurs is called the tape's "saturation level".



How to adjust the recording level 1. Set to SOURCE (record-pause mode).

Adjust the recording level using the INPUT 1.EVEL control.

The INPUT LEVEL control has a scale graduated in steps of about 1 dB which is used for level compensation. This scale can be used as an approximate reference when adjusting the control, referring to the digital peak indicator

With normal tape (type I)/chrome tape (type II) Normalband (Type 1)/Chromband (Type II) Avec une bande normale (type I)/bande au chrome (type II)

Met normale band (type I)/chroomband (type

Con cinta normal (Tipo I)/cinta de cromo (Tipo

Med normalband (typ I)/kromband (typ II)

Ω ο.

4308)

DIGITAL PEAK-Anzeige und ihre Verwendung bei der Aufnah funa

Die optimale Aussteuerung liegt vor, wenn der Tonpegel der Zuspiel-Signatquelle die Grenze des Band-Sättigungspegels * erreicht.

- e Rei zu niedriger Ausstauerung tritt des Randrauschen zu stark in den Vordergrund.
- a Rei zu hoher Aussteuerung his über den igungspegel (Obersteuerung) zeigt die Aufnahme Tonumerbrechungen und -verzer-

Der Sättigungspegel ist je nach Bandsorte verschieden. Dieses Gerät zeigt die Bandsorte und den Aufnahme-Spitzenpegel autometisch an. Die Aussteuerung entsprechend diesen Ancehen vornehmen

Sättigungspegel:

Bei schrittweiser Erhöhung des Aufnahmeeingangs wird der Ausgang gleichfalls schrittweise angehohen. Ah einem hestimmten Pegel iedoch kann letzterer Pegel nicht mehr erhäht werden, ohns deß Verzerrungen auftreten. Der Punkt an dem dies der Fall ist, wird als Stättigungspeopl bezeichnet

Aussteuerung des Aufnahmegegeb

Auf SOURCE stellen (bei Aufnahmepause)

Den Aufnehmepegel mit dem INPUT LEVE L-Regler einstellen.

Die Skala des INPUT LEVEL-Reglers ist in

Abschnitte unterteilt, die jeweils dem Pegel-

ausgleich von cs. 1 dB entsprechen. Diese Skale

kann als Circa-Anzeige bei der Aussteuerung in

Bezugnahme auf die Spitzenpegelanzeige ver-

Réglage du niveau d'enregistreme

Régler sur SOURCE (mode de pause d'en registrement).

Indicateur DIGITAL PEAK et sa fonc-

tion dans le réglage du niveau d'enregistre-

Il set mieux de régler pour que le niveau sonore

maximal de la source à enregistrer atteigne la

limite du niveau de saturation* de la bande

Quand le niveau d'enregistrement est trop faible, le bruit de sifflement inhérent à la

· Si le niveau d'enregistrement est trop fort,

dépassant le niveau de saturation, l'enregistre-

ment contiendra des craquements et sera

niveau de saturation diffère avec le type de

la bande. Cet appareil indique automatique-

ment le type de la bande et le niveau crête pour

l'enregistrement, Régler le niveau d'enregistre

Quand l'entrée d'enregistrement augmente pro-

gressivement. la sortie augmente proportion-

certain niveau. la sortie ne peut pas augmenter

davantage. Par conséquent, la sortie sera

déformée si l'entrée est augmentée au delà de ce

point. Le niveau où ce phénomène se produit

est appelé le "niveau de saturation" de la bande

ment en fonction de ces indications.

Signification du niveau de saturation

ment

utilisée.

bande sera manifeste.

2. Régler le niveau d'enregistrement en utilisant mmande INPUT LEVEL.



dB indication for level compensation (criterion) de indication for level compensation (criterion) de-Anzeige für den Pegelausgleich Indication en dB pour compensation de niveau (critère) dB aenduding voor niveaukompensatie (kriterium) Indicación en dB para la compensación de nivel (Criterio)

La commande INPLIT I EVEL a une échalle graduée par pas d'environ 1 dB qui est utilisée pour la compensation de niveau. Cette échelle peut être utilisée comme une référence approximative en réglant la commande, se référant à l'affichage de l'indicateur de crête numérique

It is OK if "6" is indicated momentarily Die kurzzeitige Anzeige "6" ist zulässig C'est correct si "6" est indiqué moment Het is okee als "6" af en toe sangegeven wordt. Estará correcto si se indica momen Det är helt riktigt om "6" tänds emellanåt.



Recording guide for normal/chrome tape
Bezugsanzeige für Normalband-/Chrombandaufnahme Guide d'enregistrement pour bande normale/chrome Opnamegids voor normale/chroomband Guía de grabación para cinta normal/cro Inspelningsledtal für normal/kromband

De DIGITAL PEAK indikator en haar gebruik bij het bijstellen van het opnomeniveeu

Het is het beste zodanig in te stellen dat het maximale peluideniveau van de oo te nemen bron de uiterste verzadigingsgrens* van de gebruikte cassette bereikt.

- e Bij onnemen met een te laag niveau zal bandruis (dat altijd sanwezig is) erg hinderliik doorkomen.
- Wanneer het opnameniveau te hoog is en de verzadigingsgrens overschrijdt, zal de onnama

Het verzadigingsniveau verschilt per type cassette Dit toestel geeft automatisch de bandsoort aan en het piekniveau voor het opnemen. Stel het opnemeniveau in volgens deze aanduidingen.

Bij stap voor stap verhogen van het opname niveau zal het uitgangsniveau proportioneel toenemen. Bij het bereiken van een bepsald nivesu echter kan het uitgengsniveau niet verder worden verhoogd. Het uitgangssignaal zal vervormd worden als het inge hoven dit nunt wordt verhoogd. Het niveau waarop dit gebeurt wordt het "verzadigingsniveau" van de band genoemd.

Indicador DIGITAL PEAK v su utilización para el ajuste del nivel de grabación

Es meior aiuster de tal manera que el nivel de sonido máximo de la fuente a graberse alcance el limite máximo del nivel de saturación* de la

- e Cuando el nivel de grabación sea demasiado baio el zumbido inherente a la cinta será
- e Cuando el nivel de grabación sea demasiado alto, excediendo el nivel de saturación, la grabación contendrá sonido de crenitación y se distorsionará

El nivel de esturación difiere según el tipo de cinta. Esta unidad automáticamente indica el tipo de cinta. Esta unidad automáticamente indica el tipo de cinta y el nivel de cresta para la grabación. Ajuste el nivel de grabación de acuerdo con estas indicaciones.

* El nivel de saturación significa

Cuando la entrada de grabación aumenta pradualmente. la salida aumenta proporcional. mente. Sin embergo, una vez alcanzado cierto nivel la salida no podrá sumenter més. Ademés la salída se distorsionará si la entrada aumenta más allá de esta punto. El nivel en que esto ocurre en la cinta se llama "Nivel de saturación"

Inställning av inspelningsnivån med DIGITAL PEAK indikator

Det är häst att ställa in insinnalsnivån så att den

- Vid för låg inspelningsnivå blir det alltid före-
- kommende bendbruset tydligt.

 Vid för hög inspelningsnivå, som går över mättnadsnivån, kommer inspelningen att innehåtte störninger och distorrion

Mättnadenivån är olika för olika handnungs Denna apparat anger automatiskt bandtyp och toppnivån för inspelning. Ställ in inspelnings nivån enligt desse indikeringer.

Mättnadsnivåns batvdelse:

När insignalsnivån ökas långsamt sker också en proportionerlig ökning av utsignalsnivån. Men när den har nått en viss nivå kan utsignalen inte üks längre. Det innehär dessutom ett uteigenler blir förvrängd om insignalen höjs utöver denna punkt. Den nivå där dette händer kallas bandet

Instellen van het opnameniveau

- . Op SOURCE (opnamepauzefunktie) zetten 2. Stel het opnameniveau in m.b.v. de INPUT

Cómo ajustar el nivel de gra

- Ajuste en SOURCE (mode de pausa de grabación).
- Ajuste el nivel de grabación utilizando el control INPUT LEVEL

- 1. Ställ i läget SOURCE (inspelnings pausläge) 2. Ställ in inspelningsnivån med INPUT
- LEVEL kontrollen.

De INPUT LEVEL regelaar heeft een schaal verdeeld in stappen van ca. 1 dB die gebruikt wordt voor kompensatie van het niveau. Deze schaal kan als ter referentie (ruwweg) gebruikt orden bij het instellen van de regelaar, terwijl u kijkt naar de digitale piekindikstordisplay.

With metal tape (type IV) Metalihand (Type IV) Avec une bande métal (type IV) Met metallhand (type IV) Con cinta de metal (Tipo IV) Med metalibend (typ IV)

El control INPUT LEVEL pores una escala graduada en pasos de 1 dB, que se utiliza para la mpensación de nivel. Esta escala puede utilizarse como una referencia aproximada cuando se ajusta al control, refiriéndose a la vigualización del indicador digital de cresta

INPUT LEVEL kontrollen har en graderad skala i steg om 1 dB som används för nivåkompensation. Denna skala kan användas som er ungefärlig referens vid kontrollens inställning medan digital toppnivåindikeringen observeras

It is OK if "10" is indicated momentarily Die kurzzeitige Anzeige "10" ist zulässig. C'est correct is "10" est indiqué momentanément. Het is okee als "10" af en toe aangegeven wordt. Estará correcto si se indica momentáneamente "10" Det är helt riktigt om "10" tänds emellanåt.



Recording guide for metal tape Aufnahme mit Metallhand Guide d'enregistrement pour bande métal Guía de grabación para cinta de metal Inspelningsledtal för metaliband

Digital Peak Indicator

This is a digital display that shows the recording/playback level and is interlocked with the peak level meter under the control of the meter microcomputer. A maximum peak level memory function is provided so that the peak level can be checked after as well as during

The digital peak level is indicated in 1 dB steps

from +1 dB to +12 dB, and the maximum level

Calling up the maximum level and resetting the

When the digital peak "CALL" button is press-

ed once, the peak level held in memory flickers

in the display for approximately 5 seconds. If the CALL button is pressed again while the

peak value is displayed, the previous contents of memory will be cleared and this newly input

maximum level will be held in memory as the

neak level. In addition, the digital peak func-

right changels is the higher and displays it

tion holds the level of whichever of the left or

When an unused blank tane is used for record-

ing, noise may be recorded. In this case, first

make a "no signal" recording on both sides of

is held for engroximately 2 seconds.

Digitale Pegelanzeige Diese Anzeige zeigt den Aufnahme-/Wieder-gabepegel. Sie ist mit der Spitzenpegelanzeige über einen Mikrocomputer verkoppelt. Die Speicherfunktion für den meximalen Spitzenpegel erlaubt den Abruf der betreffenden Anzeige sowohl während als auch nach der

Der Maximalpegel wird für jeweils ca. 2

Abrufen des Maximalpegels und Speicherrück

Nach Betätigen der CALL-Taste für die

digitale Spitzenpegelanzeige erscheint die An-

gebe für den gespeicherten Wert für ca. 5 Sekunden als Blinksignal. Wird hierbei die

CALL-Taste nochmals betätigt, wird der alte

Speicherwert gelöscht, und der neu program-

mierte Meximelwert wird als Spitzenpegel ge-

speichert. Darüberhinaus speichert und zeigt

diese Funktion den Wert für den Stereokenal

(links oder rechts) mit dem jeweils höheren

stellung

Indicateur de crête numérique

C'est un affichage numérique qui montre le niveni d'enregistrement/lecture et il est lié à l'indicateur de niveau de crête sous le contrale du microprocesseur de mesure Line fonction mémoire du niveau de crête maximal est prévue pour permettre au niveau de crête d'être contrôlé après ou pendant l'enregistre-

П LI dB

For 0 dR and under: Für 0 dB und darunger: Pour 0 dB et au-dessous: Voor 0 dB en minder: Para 0 dB v menos:



For +12 dB and over: Für +12 dB und darüber Voor +12 dB als meer: Pare +12 dR v más: För +12 dB och över:

Der Spitzenpegel wird digital in 1-dB-Schritten im Bereich von +1 dB bis +12 dB angegeben.

Le niveau de crête numérique est indiqué par pas de 1 dB de +1 dB à +12 dB, et le niveau maximal est maintenu pendant environ 2

Rappel du niveau maximal et remise à zéro de





Si la touche de rappel de crête numérique "CALL" est pressée une fois, le niveau de crête maintenu en mémoire clignote dans l'affichage pendant environ 5 secondes. Si la touche CALL est à nouveau pressée alors que la valeur de crête est affichée, le contenu antérieur de la mémoire sera annulé et ce niveau maximum nouvellement mis en entrée sera maintenu en mémoire comme niveau de crête. En plus, la fonction de crête numérique maintient le niveau du canal gauche ou droit le plus élevé et l'affiche.

Wird ein noch nicht bespieltes Band für die Aufnahme verwendet, kann es zu verrauschten Aufnehmen kommen. In diesem Fall zunächst eine Aufnahme ohne Zuspielsignal für beide Bandseiten durchführen.

Quand une cassette vierge qui n'a pas encore servi est utilisée pour enregistrer, du bruit peut être enregistré. Dans ce cas, faire d'abord un enregistrement "sans signal" sur les deux

Entrée directe

Pour entrer directement les signaux (sans passer par un amplificateur stérép), raccorder un lecteur de disque audionumérique ou une platine à cassette audionumérique aux bornes CD DIRECT et DIRECT comme indiqué dans "RACCORDEMENTS" en page 11. Dans ce cas la commande BALANCE de cet appareil ne fonctionnera pas car son circuit n'est pas sur la tione. Ceci raccourcit le chemin du signal pour une qualité sonore améliorée. Pour enregistre avec ces sources, placer le sélecteur INPUT SELECT en fonction de l'entrée.

Digitale piekindikator

Dit is een digitale display die het opname/weergave niveau sangeeft en is via de metermikrokomputer verbonden met de piekniveaumeter. Een geheugenfunktie voor het maximale piek niveau is aangebracht zodat het piekniveau zoals na als tijdens het opnemen kan worder

Indicador de cresta digital

Este es un indicador digital que muestra el nivel de grabación/reproducción y está relacionado con el medidor de nivel de cresta bajo el control de la microcomputadora del medidor. Se provee de una función de memoria de nivel de cresta máximo para que el nivel de cresta pueda verificarse después así como durante la graba-

Digital toppnivåindikator

Denna digitala indikering visar inspelnings/ avspelningsnivån och är sammankopplad med toppnivåmäteren under kontroll av en mikrodator. En funktion för lagring av maximal toppnivå finns så att toppnivån kan kontrolleras

Het digitale piekniveau wordt aangegeven in stappen van 1 dB van +1 dB tot en met +12 dB en het maximale niveau wordt gedurende ca. 2

Oproepen van het maximale niveau en opnieuw instellen van het geheugen

El nivel de cresta digital se indica en pasos de 1 dB desde +1 dB a +12 dB, v el nivel máximo es retenido por aproximadamente 2 segundos

Recuperación del nivel máximo y reposición

Cuando se presiona el botón CALL de cresta

digital una vez, el nivel de cresta retenido en

memoria, parpadea en el indicador por aproxi-

madamente 5 segundos. Si se presiona nueva-

mente el botón CALL mientras se visualiza el

valor de cresta, se borrará el contenido previo

de la memoria y el nivel méximo recientemente

ingresado será retenido en memoria como

digital retiene el nivel de cualesquiera de los

canales izquierdo o derecho que sea el más alto

nivel de cresta. Además, la función de cresta

Toppnivån visas med siffror i steg om 1 dB mellan +1 dB och +12 dB samt den maximala nivån som hålls i ca 2 sekunder

Aterkalining av maximalnivå och minnets åter-

Bij eenmeel indrukken van de digitale piek "CALL" toets knippert het in het geheugen vastoeleode piekniveau gedurende ca. 5 sekon den in de display. Als de CALL toets nogmaals ingedrukt wordt terwijl het piekniveau aangege-ven wordt, zal de eerdere inhoud van het geheugen uitgewist worden en het nieuw inge-

voerde maximale niveau in het geheugen worden vastgelegd als het piekniveau. Daarnaast houdt de digitale piekfunktie het niveau van het linker of rechter kanaal (het hoogste van de twee) vast en geeft deze aan.

Opmerking:

Direkte invoer

Bij gebruik van een nieuwe, ongebruikte cassette is het mogelijk er ruis in de opname wordt angenomen. Om dit te voorkomen kunt u eerst een blanco opname op beide kanten van de cassette aanbrengen.

Sluit een kompakt diskspeler en een DAT speler

aan op de CD DIRECT en DIRECT aansluitin-

gen zoals aangegeven in "AANSLUITINGEN" op

blz, 12, opdat de signalen direkt ingevoerd

kunnen worden (i.p.v. een stereo versterker). In

dit geval zal de BALANCE regelaar van dit toestel

niet werken daar het circuit ervan niet verbon

den is met de bewuste aansluitingen. Hierdoor

wordt de door het signaal afgelegde weg verkort

INPUT SELECT schakelaar overeenkomstig de

ingangsbron om van een van deze bronnen op te

v to exhibe

Cuando se utiliza una cinta virgen para la grabación, es posible que se registre ruido. En este caso efective primero una grebación "sin señales" en ambos lados de la cinta.

Tryck in CALL tangenten en gång för att åter kalla den i minnet lagrade toppnivån som då blinkar i displayen i c.a 5 sekunder Om CALL tengenten trycks in igen medan toppvärdet visas, raderas tidigare lagrat värde i minnet och det ny toppvärdet lagras som maximal insignalsnivā. Dessutom hālls toppnivān kvar i den digitala indikeringen för höger eller vänster kanal beroende på vilken som är högst.

Vid användning av ett nytt band för inspelning kan störningar í form av brus spelas in. Gör i så fali en inspelning utan signaler på bendets båda

Entrada directa

Para que las señales puedan ingresar directamente (en lugar de provenir del amplificador estéreo), conecte un tocadiscos compacto y un reproductor DAT a los terminales CD DIRECT v DIRECT tal como se muestra en "CONE-XIONES" en la pág. 12. En este caso, el control BALANCE de esta unidad será anulado porque su circuito está desconectado de la línea. Esto acorta la travectoria de la señal para mejorar la calidad del sonido. Para grabar con estas fuentes, ajuste el selector INPUT SELECT de acuerdo con la entrada.

Direktingång

För att kunna inmata signalerna direkt (i stället för via en stereoförstärkare) kopolar man en CD-spelare eller DAT-bandspelare till CD DIRECT- och DIRECT-anslutningarna som visas i avsnittet "ANSLUTNINGAR" på sid. 12. Denna apparats BALANCE kontroll bli i detta fall verkningslös eftersom dess krets förbigås. Detta gör att signalbanan blir kortare med bättre ljudkvalitet som resultat. Ställ in INPUT SELECT omkopplaren för respektive liudkälla vid inspelning

Direct input

the tape.

So that signals can be input directly (instead of from a stereo amplifier), connect a CD player and DAT player to the CD DIRECT and DIRECT terminals as shown in "CONNEC-TIONS" on Page 11. In this case, the BALANCE control of this unit will be disabled because its circuit is switched out of line. This shortens the signal path for an improved sound quality To record with these sources, set the INPUT SELECT switch according to the input.

Direkteingang

Für direkten Signaleingang (anstelle über einen Stereo-Verstärker) können CD-Player und DAT-Recorder an die CD DIRECT- und DIRECT-Buchsen entsprechend den Angeben von Abschnitt "ANSCHLÜSSE" auf Seite 11 angeschlossen werden. In diesem Fall ist der BALANCE-Regier dieses Geräts ohne Funktion, da dessen Schaltkreis nicht in den Signalverlauf einbezogen ist. Der hierdurch verkürzte Signalverlauf ermöglicht eine verbesserte Klangqualität. Um von den beiden genannt Signalquellen aufzuzeichnen, den INPUT SELECT-Schalter wie erforderlich betätigen

SPECIFICATIONS

CARACTERISTIQUES TECHNIQUES

ESPECIFICACIONES

CARACTERISTIQUES TECHNIQUES (TD-V1010E)

SPECIFIKATIES (TD-V1010E)

(TD-V1010A/C/J)

(No. 4308) 1;

_	
Туре	: Stereo cassette deck
Track system	: 4-track, 2-channel : 4,8 cm/sec (1-7/8 inch/
Tape speed	
_	sec)
Frequency response	: (-20 dB recording)
	Metal tape;
	10 - 22,000 Hz
	15 - 20,000 Hz (±3 dB)
	Chrome tape;
	10 20,000 Hz
	15 - 18,000 Hz (±3 dB)
	Normal tape;
	10 20,000 Hz
	15 - 18,000 Hz (±3 dB)
S/N ratio	: 61 dB (S = 1 kHz,
	K3 = 3 %
	N = A-weighted,
	Metal tape)
	The S/N is improved by
	about 15 dB at 500 Hz
	and by max, 20 dB at
	1 kHz ~ 10 kHz with
	Dolby C NR on and im-
	proved by 5 dB at 1 kHz
	and by 10 dB at above
	5 kHz with Dolby B
	NR on.
Improvement of	: 4 dB at 10 kHz with
MOL	Dolby C NR on.
Wow and flutter	: 0.022 % (WRMS)
Channel separation	: 40 dB (1 kHz)
Crosstelk	: 65 dB (1 kHz)
Hermonic distortion	: K3; 0.5 % THD; 1.0 %
	(metal tape, 1 kHz
	0 VU)
Heads	: Erase (2-Gap Ferrite)
	x 1, Record (Amor-
	phous) x 1, Playback
	(Amorphous) x 1

(TD-V1010A/C/J)

Type :	Platine d'enregistre-
	ment stéréo
	4 pistes, 2 canaux
Vitesse de défilement :	
Réponse en fréquence :	(Enregistrement à -20 d8)
	Bande "métal":
	10 a 22,000 Hz
	15 à 20,000 Hz (±3 dB)
	Bande chrome:
	10 à 20 000 Hz
	15 à 18,000 Hz (±3 dB)
	Bande normale:
	10 à 20.000 Hz
	15 à 18,000 Hz (±3 dB)
Rapport signal/Bruit :	61 dB (S = 1 kHz, K3 =
-	3 %, N = A-pondéré,
	Bande "métal")
	Le rapport S/B est
	amélioré de 15 dB
	environ à 500 Hz et de
	20 dB maximum à
	1 kHz ~ 10 kHz avec le
	Dolby C NR en circuit,
	et amélioré de 5 dB à
	1 kHz et 10 dB environ
	å 5 kHz avec le Dolby
	B NR en circuit.
Amélioration du :	4 dB ê 10 kHz avec le
niveau de sortie max.	Dolby C NR en circuit.
Pleurage et scintille- : ment	0,022 % (WRMS)
Séparation des canaux:	40 dB (1 kHz)
Diaphonie :	65 dB (1 kHz)
Distorsion harmonique:	K3; 0,5 %, THD; 1,0 %
	(bande "métal", 1 kHz
	0 VU)
Terre	Cilmanument Idiomites 2

(TD-V1010A/C/J) Tipo : Magnetofono de cassette estereo Sistema de pista : 4 pistas, 2 canales Velocidad de la cinta : 48 cm/seg. Respuesta de frecuencie : (Grabación a –20 dB) Cinta metalizada, 10 — 22,000 Hz 15 — 20,000 Hz (±3 dB)

Cinta Cromo:
10 - 20,000 Hz
15 ~ 18.000 Hz (±3 dB)
Cinta Normal;
10 – 20.000 Hz
15 - 18.000 Hz (±3 dB)
: 61 dB (S = 1 kHz.
K3 = 3 %.
N = A ponderado,
cinta metalizada)
La relación S-R se ha
mejorado en aprox.
15 dB s 500 Hz, por
un máx, de 20 dB a
1 kHz ~ 10 kHz
con Dolby C NR
activado y en 5 dB a
1 kHz v en 10 dB a
més de 5 kHz con
DolbyB NR activado.
: 4 dB a 10 kHz con
Dolby C NR activado
: 0.022 % (WRMS)

Fluctusción y tremo- lación	: 0,022 % (WRMS)
Separación de los caneles	: 40 dB (1 kHz)
Diafonía	: 65 dB (1 kHz)
Distorsión armónica	: K3; 0,5 % DAT; 1,0 % (cinta metalizada, 1 kHz 0 VU)
Cabezas	: Borrado (ferrita de 2 entrehierros) x 1, Grabación (amorfa)

,,	
Тур	: Stereo-Cassettendeck
Spursystem	: 4-Spur, 2-Kanel
Bandgeschwindigkeit	
Frequenzgang	: (-20 dB-Aufnahme)
	Metallband;
	10 – 22,000 Hz
	(DIN 45 500)
	15 - 20.000 Hz (±3 dB)
	Chromband;
	10 ~ 20,000 Hz
	(DIN 45 500)
	15 - 18.000 Hz (±3 dB)
	Normalband;
	10 - 20,000 Hz
	(DIN 45 500)
	15 - 18,000 Hz (±3 dB)
oignar-Hauschaostand	: 61 dB (DIN 45 500,
	Metaliband)
	Der Signal-Rauschab- stand ist um 15 dB bei
	stand ist um 15 dB bei 500 Hz und um max.
	20 dB bei 1 kHz ~
	10 kHz mit einge-
	schalteter DOLBY C
	NR verbessert und um
	5 dB bei 1 kHz und um
	10 dB über 5 kHz mit
	eingeschalteter
	DOLBY B NR.
Verbesserung des	: 4 dB bei 10 kHz mit
Höchstausgangs-	eingeschalteter
pegels	DOLBY C NR.
Gleichlaufschwan-	55257 5
kungen	: 0.065 % (DIN 45 500)
Kanaltrennung	: 40 dB (1 kHz)
Übersprechdämpfung	: 65 dB (250 Hz)
Klirrgrad	: K3; 0,5 %, THD; 1,0 %
-	(Metallband, 1 kHz
	0 VU)
Köpfe	: 2-Spalt-Ferrit-
	Lőschkopf x 1, amor-
. *	pher-Aufnahmakopf
	x 1, smorpher-
	Wiedergebekopf x 1

TECHNISCHE DATEN

(TD-V1010G)

Köpfe

Туре	: Platine d'enregistre-
	ment stéréo
Système de pistes	: 4 pistes, 2 canaux
Vitesse de défilement	: 4,8 cm/sec.
Réponse en tréquence	r: (Enregistrement à
	-20 dB)
	Bande "métal";
	10 à 22.000 Hz
	(DIN 45 500)
	15 à 20,000 Hz (±3 dB)
	Bande chrome;
	10 à 20.000 Hz
	(DIN 45 500)
	15 à 18,000 Hz (±3 dB)
	Bande normale:
	10 à 20.000 Hz
	(DIN 45 500)
	15 à 18.000 Hz (±3 dB)
Rapport signal/bruit	: 61 dB (DIN 45 500,
	Bande "métal")
	Le rapport S/B est
	amélioré de 15 dB
	environ à 500 Hz et de
	20 dB maximum á
	1 kHz ~ 10 kHz
	avec le Dolby C NR en
	circuit, et amélioré
	de 5 dB å 1 kHz et
	10 dB environ à 5 kHz
	avec le Dolby B NR en
	circuit.
Amélioration du	: 4 dB à 10 kHz avec le
niveau de sortie max	. Dolby C NR en circuit.
Reurage et	
scintillament	: 0,065 % (DIN 45 500)
Séparation des canaux	
Diaphonie	: 65 dB (250 Hz)
Distorsion	: K3; 0,5 %, THE; 1,0 %
	(bande "métal", 1 kHz
	0 VU)
Tétes	: Effacement (ferrite 2
	entrefers) x 1, enre-
•	x 1, lecture (amorphe)

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-	
Type	: Stereo cassettedeck
Systeem	: 4-sporen, 2 kanalen
Bendsnelheid	: 4,8 cm/sek.
Frekwentiebereik	: (-20 dB opname)
	Metaalband;
	10 - 22.000 Hz
	(DIN 45 500)
	15 - 20.000 Hz
	(±3 dB)
	Chroomband;
	10 - 20.000 Hz
	(DIN 45 500)
	15 - 18,000 Hz
	(±3 dB)
	Normaalband;
	10 - 20.000 Hz
	(DIN 45 500) 15 - 18,000 Hz
	(±3 dB)
Signael/ruisverhouding	: 61 dB (DIN 45 500
organical modeling	metaalband)
	De signaal/ruisver-
	houding wordt met
	ca. 15 dB bij 500 Hz
	verbeterd. Bij 1 kHz
	~10 kHz met de
	DOLBY C NR op
	"ON" wordt de
	signaa! ruisverhou-
	ding met max. 20 dB
	verbeterd. De
	signaal/ruisverhou-
	ding wordt met 5 dB
	bij 1 kHz verbeterd
	en met 10 d8 bij
	meer dan 5 kHz, als de Dolby B NR
	schakelaar tege-
	lijkertijd op "ON"
	staat.
Maximael	: 4 dB.bij 10 kHz met
uitgangsniveau	Dolby C NR op "ON"
Wow en Flutter	: 0.065 % (DIN 45 500)
Snelheidsfluktuaties	: 40 dB (1 kHz)
Overspraak	: 65 dB (250 Hz)
Harmonische	: K3; 0,5 % THV; 1,0 %
vervorming	(metaalband, 1 kHz
=	0 VU)

(NVI): Wiskop (2-spleten ferriet) x 1, Opnamekop (amorf) x 1, Weergevekop (amorf) x 1

0 VU)
: Elfacement (férrite 2 entrefers) x 1, enregistrement (amorphe) x 1, lecture (amorphe) x 1

time Input terminals CD_DIRECT	Pulse servo direct drive motor for capstan x 1 DC motor for reel x 1 DC motor for mechanism drive x 1 d : Approx. 95 sec. with C-80 cessette	Moteurs Temps d'avance	: Moteur à commande directe d'essentement par impulsions pour le cabestan x 1, Moteur CC pour la bobline x 1 Commande de système pour moteur CC x 1 : Environ 95 secondes,	Motores Tiempo de avance rioido/rebobinsdo	: Motor impulsión directa mediante servo impulso para el eje de arrastre x 1, Motor de CC para el eje de carrette x 1 Impulsión de mecanismo x 1 : Aprox. 95 segundos con casserte C-60		Impuls-Servo-Direkt- antriebsmotor für Capstan x 1 Geichstrommotor für Spule x 1 Gleichstrommotor für Laufwerk x 1 Ce. 95 Sekunden (C-60 Cassette)	Moteurs Temps d'avence racide/Temps de	: Moteur à commande directe d'asservissement par impulsions pour le cabestan x 1, Moteur CC pour la bobline x 1 Commande de système pour moteur CC x 1 : Environ 95 secondes, avec une cessette C-60	Motoren	: Impulservo direkte aan- drijving motor voor de aandrijving van de capstan bij normale bendkoop x 1 Gelijkstroommotor voor de spoelen x 1 Gelijkstroommotor voor aandrijving van het mechanisme x 1
(x 1 circuit)	; Min. input level; 80 mV Input impedance; 50 kΩ	rapide/Temps de réembobinage Bornes d'entrée	avec une cassette C-60	Terminales de entrada CD DIRECT		CD DIRECT	: Minimaler Eingengs- pagel; 80 mV	réembobinage Bornes d'entrée CD DIRECT		Snelspoeltijd Ingangen	: Ca. 95 sek, met een C-60 cassette
DIRECT		CD DIRECT (x 1 circuit)	: Niveau d'entrée min.;	(x 1 circuito)	: Nivel de entrada min.; 80 mV		Eingengsimpedenz; 50	(x 1 circuit)	: Niveau d'entrée min.;	CD DIRECT	
(x 1 circuit)	: Min, input level; 80 mV Input impedence; 50	(x 1 circuit)	80 mV		Impedancia de entrada;		kΩ		80 mV	(x 1 circuit)	: Min. ingangsniveau;
	kΩ		Impédance d'entrée;		50 kΩ	DIRECT			impédance d'entrée; 50 kΩ		80 mV Ingangsimpedantie;
LINE IN	: Min. input level; 80 mV		50 k Ω	DIRECT (x 1 circuito)	: Nivel de entrada mín.:	(x 1 Schaltkreis)	: Minimaler Eingangs-	DIRECT	50 KII		ingangsimpedantie, 50 kΩ
(x 1 circuit)	Input impedance; $50 k\Omega$	DIRECT (x 1 circuit)	: Niveau d'entrée min.;	(x i circuito)	: Nivel de entrada min.;		pegel; 80 mV Eingangsimpedenz; 60	(x 1 circuit)	: Niveau d'entrée min.;	DIRECT	: Min. ingangsniveau;
Output terminals LINE OUT	Output level: 300 mV	(X I circuit)	80 mV		Impedancia de entrada;		kΩ		80 mV	(x 1 circuit)	80 mV
(x 1 circuit)	Output impedance;		Impédance d'entrée;		50 kΩ	LINE IN	: Minimaler Eingangs-		Impédance d'entrée;		Ingangsimpedantie;
(600 Ω		50 k Ω	LINE IN	; Nivel de entrada	(x 1 Scheltkreis)	pegel; 80 mV	LINE IN	50 kΩ : Niveau d'entrée	LINE IN	50 kΩ : Min. ingengeniveau 80
PHONES x 1	: Output level;	LINE IN (x 1 circ		(x 1 circuito)	mínima: 80 mV		Eingangsimpedenz; 50 kΩ	(x 1 circuit)	minimum; 80 mV	(x 1 circuit)	mV
	Q ~1 mW/8 Ω Matching impedance;		: Niveau d'entrée mini- mum: 80 mV Impédance		Impedancia de	Ausgänge	20 KII		Impédance d'entrée;		Ingangsimpedantie;
	Matching Imperiance; 8 Ω – 1 kΩ		d'entrée: 50 kΩ		entrada; 50 kΩ	LINE OUT			50 kΩ	Uitgangen	50 kΩ
Other terminals	: COMPU LINK-1/	Borne de sortie		Terminales de salida		(x 1 Schaltkreis)	; Ausgangspegel; 300 mV	Borne de sortie		LINE OUT	
•	SYNCHRO x 2	LINE OUT		LINE OUT (x 1 circuito)	: Nivel de salida;		Ausgangsimpedanz;	LINE OUT	: Niveau de sortie:	(x 1 circuit)	: Uitgangniveeu:
Power requirement		(x 1 circuit)	: Niveau de sortie;	(X I circuito)	300 mV		600 Ω	(A I Chicolty	300 mV		300 mV
TD-V1010A	: AC 240/220/120 V, 50/60 Hz		300 mV Impédance de sortie;		Impedancia de salida; 600 Ω	PHONES x 1	: Ausgangspegel: 0 ~1 mW/8 Ω		Impédance de sortie; 600 Ω		Uitgangsimpedentie: 600 Ω
TD-V1010C/J	: AC 120 V, 60 Hz	PHONES x 1	600 Ω : Niveau de sortie;	PHONES x 1	: Nivel de salida;		Geeignete Impedanz: B Ω 1 kΩ	PHONES x 1	: Niveau de sortie:	PHONES x 1	: Uitgangniveau:
Power consumption	: 20 W	PHONESX	0 ~ 1 mW/8 Ω		0 ~ 1 mW/8 Ω	Weitere Anschlüsse	: COMPU LINK-1/		0 ~ 1 mW/8 Ω		0 ~ 1 mW/8 Ω
Dimensions (W x H x D)	: 435 x 140 x 336 mm		Impédance caractéris-		Impedancia de adaptación;		SYNCHRO x 2		Impédance caracté-		Voor hoofdtelefoon
(W X II X D)	(17-3/16" x 5-9/16" x		tique; 8 Ω — 1 kΩ		8Ω – 1 kΩ	Spannungsversorgung	: Netz 240/220/120 V,	Autres prises	ristique: 8 Ω – 1 kΩ : COMPU LINK-1/		met een impedentie 8 Ω 1 kΩ
	13-1/4")	Autres prises	: COMPU LINK-1/ SYNCHRO x 2	Otros terminales	: COMPU LINK-1/		50/60 Hz : 20 W	Autres prises	SYNCHRO × 2	Andere sansluitingen	: COMPU LINK-1/
Weight	; 10.3 kg (22.8 lbs) ; Pin plug cord 2	Alimentation	STNCHRO X 2		SYNCHRO × 2	Leistungsaufnahme Abmessungen	: 20 W : 435 x 140 x 336 mm	Almentation	: 240/220/120 V CA,	, -	SYNCHRO x 2
Accessories	Remote cable 1	TD-V1010A	: 240/220/120 V CA,	Alimentación		(B x H x T)			50/60 Hz	Voeding	: 240/220/120 V
	Remote control 1		50/60 Hz	TD-V1010A	: CA 240/220/120 V, 50/60 Hz		: 10,3 kg	Consommation Dimensions	: 20 W : 436 x 140 x 336 mm	Stroomverbruik	wisselstroom, 50/60 Hz : 20 W
	Bettery (R6/AA) 2	TD-V1010C/J	: 120 V CA, 60 Hz	TD-V1010C/J	: CA 120 V. 60 Hz	Zubehör	: Cinchkabel 2 Fembedienkabel 1	(LxHxP)	: 435 X 140 X 336 mm	Afmetingen	: 20 W : 435 x 140 x 336 mm
	al and interest of absence	Consommation Dimensions	: 20 W : 435 x 140 x 336 mm	Consumo	: 20 W		Fernbedianung 1	Poids	: 10,3 kg	(d x h x d)	
without notice.	tions are subject to change	(LxHxP)	. 430 x 140 x 330 mm	Dimensiones	: 435 x 140 x 336 mm		Batteria (R6/AA) 2	Accessoires	: Câble à broches 2	Gewicht	: 10,3 kg
without notice.		Poids	: 10,3 kg	(An x Al x F)	: 10.3 kg				Cable de télé- commande 1	Toebehoren	: Tulpstekker-
		Accessoires	: Cáble à broches 2	Peso Accesorios	: Cordones con	Technische Änderung	en vorbehelten!		Télécommande 1		snoer 2 Afstandsbe-
			Câble de télécommende	H-Wester ICH	clavijas				Pile (R6/AA) 2		dieningsnoer 1
			Télécommande 1		monopolares 2						Afstandbediening 1
			Pile (R6/AA) 2		Cable de mando				ectéristques modifiables		Betterij (R6/AA) 2
					a distancia 1			sens préevis.		Wijzigingen in ontwerp	en specifikaties voor-
		Présentation et carac	ctéristiques modifiables sens		Control remoto 1					hebourten	arrapourmetres 4001.

El diseño y las especificaciones están sujetos

(No. 4308) 15

SPECIFICATIONS

(TD-V1010B)

Type Track system	: Stereo cassette deck : 4-track, 2-channel		: 0.065 % (DIN 45 500) : 40 dB (1 kHz)	LINE IN	: Min. input level; 80 mV
Tape speed	: 4-track, 2-channel : 4.8 cm/sec (1-7/8 inch/		: 40 dB (1 kHz)	(x 1 circuit)	Input impedance; 50 kΩ
Tope speed	sec)		: K3; 0 5 % THD; 1.0 %	Output terminals	Kat
Frequency response	: (-20 dB recording)		(metal tape, 1 kHz	LINE OUT	: Output level; 300 mV
	Metal tape;		0 VU)	(x 1 circuit)	Output impedance;
	15 20,000 Hz (±3 dB)	Heads	: Erase (2-Gap Ferrite)		600 Ω
	Chrome tape; 15 18,000 Hz (±3 dB)		x 1, Record (Amorphous)	PHONES x 1	: Output level;
	Normal tape;		x 1, Playback (Amor- phous) x 1		0 ~ 1 mW/8 Ω Matching impedance
	15 - 18,000 Hz (±3 dB)	Motors	: Pulse servo direct drive		8 Ω – 1 kΩ
S/N ratio	: 61 dB (S = 1 kHz.	110.0.1	motor for capstan x 1.	Other terminals	: COMPU LINK-1/
	K3 = 3 %		DC motor for reel x 1		SYNCHRO x 2
	N = A-weighted,		DC motor for mechanism	Power requirement	: AC 240/220/120 V.
	Metal tape)		drive x 1		50/60 Hz
	the S/N is improved by		: Approx. 95 sec. with	Power consumption	: 20 W
	about 15 dB at 500 Hz and by max, 20 dB at	time	C-60 cassette	Dimensions (W x H x D)	
	1 kHz ~ 10 kHz with	Input terminals CD DIRECT			: 435 x 140 x 336 mm
	Dolby C NR on and im-		: Min. input level; 80 mV	Weight Accessories	10,3 kg
	proved by 5 dB at 1 kHz	(x i circuit)	Input impedance; 50	ACCESSORIES.	Pin plug cord 2 Remote cable 1
	and by 10 dB at above		kΩ		Remote control 1
	5 kHz with Dolby B	DIRECT	~~~		Battery (R6/AA) 2
	NR on.	(x 1 circuit)	: Min. input level; 80 mV	B	
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on.		Input impedance; 50	Design and specificati without notice.	ons are subject to change
mor.	DOIDY C NA OR.		kΩ		

TEKNISKA DATA (TD-V1010E)

P	: Stereokassettdack	Svaj	: 0,065 % (DIN 45 500)	LINE IN	: Min, ingångsnivå;
ērsγstem	. 4 spår, 2 kanaler	Kanalseparation	: 40 dB (1 kHz)	(1 krets)	80 mV
ndhastighet	: 4,8 cm/sek	Överhörning	: 65 dB (1 kHz)		Ingångsimpedans;
ekvensomf ån g	: (-20 dB inspelning)	Hermonisk distorsion	: k3; 0,5% THD; 1,0%		50 kΩ
	Metaliband;		(metaliband, 1 kHz	Utångar	: Utgangnivā;
	10 22.000 Hz (DIN		0 VU)	LINE OUT	300 mV
	45 500)	Tonhuvud	: Radering (dubbel spalt,	(1 krets)	
	15 - 20.000 Hz (±3 dB)		ferrit) 1 st, inspelning		Utgangsimpedans:
	Krombend;		(emorf) 1 st, avspel-		600 t
	10 20,000 Hz (DIN		ning (amorf) 1 st	PHONES x 1	: Utgengnivā;
	45 500)	Motorer	: Direktdrift med pulsservo		0 ~ 1 mW/8 Ω
	15 - 18,000 Hz (±3 dB)		motor för kapstan, 1st		För hörtelefon med
	Normalband;		Likströmsmotor för		impedans;
	10 - 20,000 Hz (DIN		spole, 1st		8 Ω – 1 kΩ
	45 500)		Likströms motor för	Andra kontakter	: COMPU LINK-1/
	15 – 18.000 Hz (±3 dB)		fack, 1st		SYNCHRO x 2
öravstånd	: 61 dB (DIN 45 500,	Snebbspoiningstid	: Ca 95 sek. (C-60 kassett)	Strömart	: ~ 240/220/120 V,
	metallband)	Ingångar			50/60 Hz
	Störavständet förbättras	CD DIRECT		Effektförbrukning	: 20 W
	med omkring 15 d8 vid	(1 krets)	: Min. ingångsnivå; 80 mV	Mått (B x H x D)	: 435 x 140 x 336 mm
	500 Hz och med max.		Ingångsimpedens: 50 kΩ	Vikt	: 10,3 kg
	20 dB vid 1 kHz —	DIRECT		Tillbehör	: Kabel med stift-
	10 kHz med Dolby C.	(1 krets)	: Min. ingångsnivå; 80 mV		pluggar
	Det för bättres med		Ingångsimpedans; 50 kΩ		Fjärrstyrnings-
	5 dB vid 1 kHz och				kabel 1
	med 10 dB vid över				Fjärrkontrollen 1
	5 kHz med Doiby B.				Batteri (R6/AA) 2
Or Dettring av ma:	x. : 4 d8 vid 10 kHz med				

Rätt till ändringer förbehålles.

4 Location of Main Parts

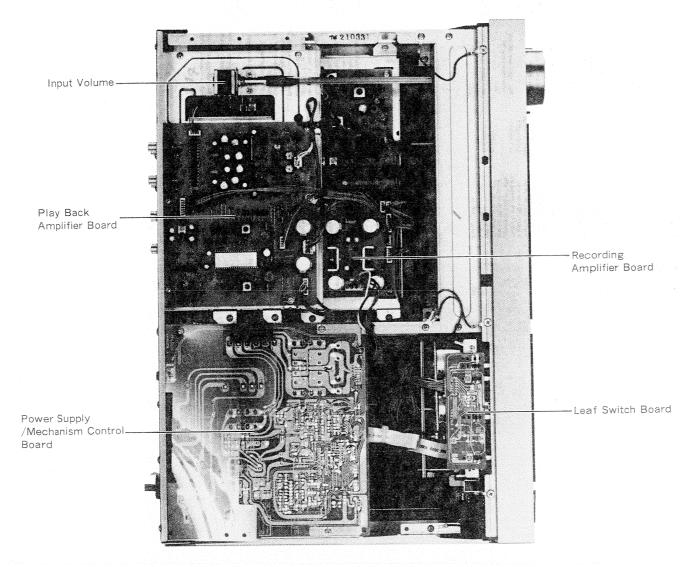
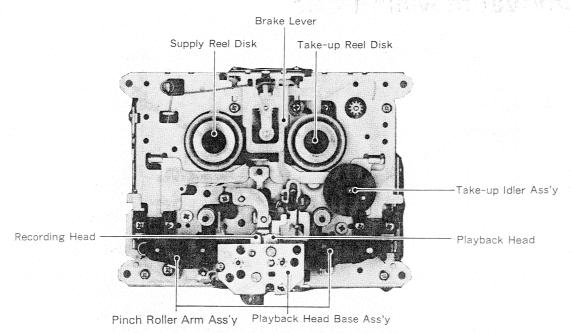
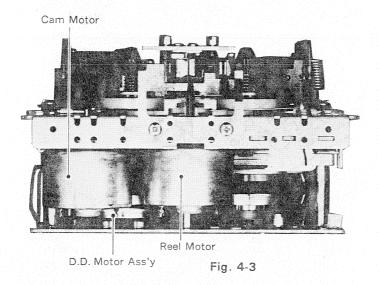
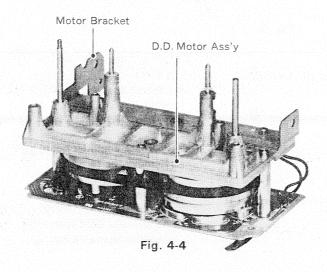


Fig. 4-1

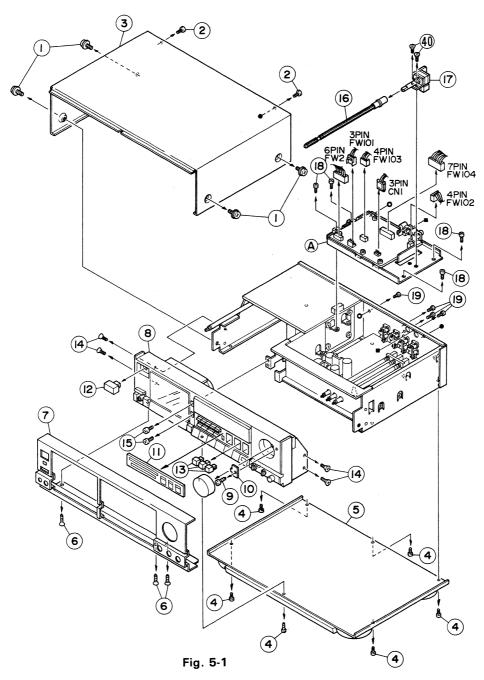








5 Removal of Main Parts



1. Top cover

Remove the six screws (1), (2) retaining the top cover (3).

2. Bottom cover

Remove the six screws 4 retaining the bottom cover 5.

3. Front plate

Remove the three screws (6) retaining the front plate (7).

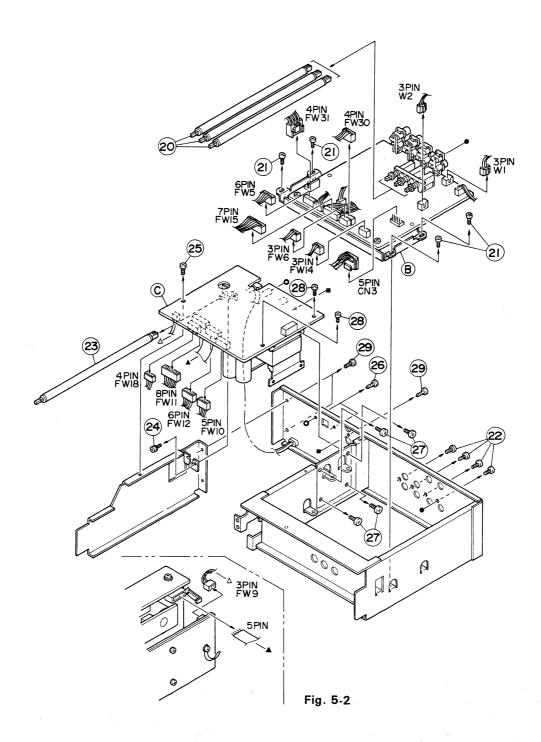
4. Front panel ass'y 8 - Follow item 9.

- (1) Pull out the input volume knob and remove the screw 9 retaining the volume shaft stopper 10.
- (2) Remove the function/mode panel (11) from the front panel ass'y.

- (3) Pull out the power button (2) and the three input select buttons (3).
- (4) Remove the six screws (14), (15) retaining the front panel
- (5) Pull out the volume shaft (6) from the input volume (17).

5. Playback amplifier board bracket (A)

- (1) Remove the two screws 40 retaining the input volume board 17.
- (2) Pull out the six connectors (3-pin: CN1 and FW101; 4-pin: FW103 and FW102; 6-pin: FW2; 7-pin: FW104).
- (3) Remove the eight screws (18), (19) retaining the playback amplifier board bracket (A).



6. Recording amplifier board bracket (B)

- (1) Pull out the three input select shafts 20.
- (2) Pull out the nine connectors (3-pin: FW6, FW14 and W1, W2; 4-pin: FW30 and FW31; 5-pin: CN3; 6-pin: FW5; 7-pin: FW15)
- (3) Remove the eight screws (2), (2) retaining the recording amplifier board bracket (B).
- 7. Power supply/Mechanism control board ©
- (1) Pull out the power supply switch shaft 23.
- (2) Pull out the two connectors (5-pin and 3-pin: FW9).

- (3) Remove the screw (24) retaining the power switch.
- (4) Remove the three screws 25, 26 retaining the power supply board.
- (5) Remove the four screws (2) retaining the power transformer.
- (6) Remove the five screws (28), (29) retaining the power supply board.
- (7) Pull out the four connectors (4-pin: FW18; 5-pin: FW10; 6-pin: FW12; 8-pin: FW11).

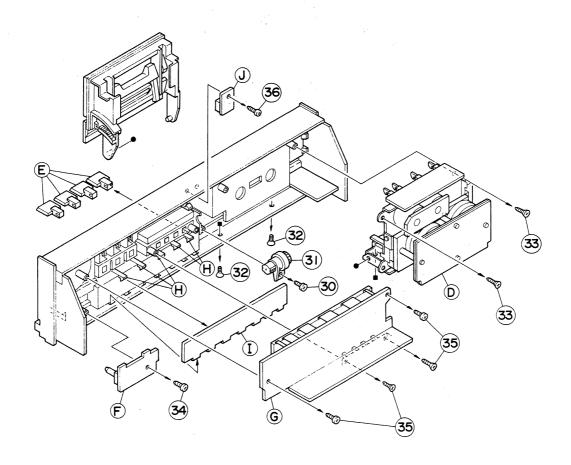


Fig. 5-3

- 8. Cassette mechanism ass'y (D)
 (1) Remove the screw (30) retaining the dumper (31) and take out the cassette door.
- (2) Remove the four screws 32, 33 retaining the cassette mechanism ass'y ①.

9. Front panel ass'y

- (1) Pull out the four switch buttons **(E)**.
- (2) Remove the screw 34 retaining the balance volume board (F).
- (3) Remove the four screws 35 retaining the display/Dolby NR board **G**.
- (4) Remove the five joints (H) retaining the operation switch
- (5) Remove the screw 36 retaining the remocon board 1.

6 Main Adjustments

1. Measuring instruments required for adjustment

- (1) Low-frequency oscillator (oscillation frequency 50 Hz \sim 20 kHz, 0 dB output with 600 Ω impedance)
- (2) Attenuator (600 Ω impedance)
- (3) Electronic voltmeter
- (4) Standard tapes

VTT712 (tape speed, wow & flutter measurements)

VTT724 (reference level)

TMT735, VTT739 (playback frequency)

TMT6447 (music scan)

TMT6448 (music scan)

TMT703 (10 kHz)

- (5) Recording reference tapes TS-9 (UD1), TS-10 (SA), TS-11 (MA) or equivalent (Use the standard tapes specified by this department.)
- (6) 600 Ω resistors (for attenuator matching)
- (7) Distortion meter (bandpass filter)
- (8) Torque gauge (cassette) for CTG-N mechanism adjustments
- (9) Wow & flutter gauge
- (10) Frequency counter gauge
- (11) M300 gauge
- (12) Band pass filter

■ Mechanical Adjustments (1)

	Item	Adjustment and Checking Method	Standard Value	Checking Point
1	Flywheel, thrust check	Check up by the sense of touch.	0.2-0.5 mm	
2	Back tension rubber posi- tion check	Confirm that the back tension rubber contacts the supply wheel to stop its rotation in playback while the supply wheel is free from the back tension rubber in MS/Stop mode.	·	Supply disk Back tension rubber
3	Pinch roller's contact tim- ing check	The right pinch roller presses against the capstan shaft earlier than the left pinch roller.		·
4	Pinch roller guide height adjustment	Use M300 gauge and adjust the screw (A) so that the 3.8 mm gauge can be just inserted.		
5	PB head height and tilt adjust- ment	 Use M300 gauge and adjust the screw B so that the 3.8 mm gauge can be just inserted into the tape guide of the PB head. Adjust the screw © so that the PB head is not slanting and there is no gap between the head and the gauge. Be careful of inserting the gauge since it easily makes an opening resulting from imperfect contact. It is recommended to illuminate the gap from the opposite side and check up that no light can be seen through above and below the gauge. Check up the height of the tape guide again. If the gauge contacts the head, repeat the above steps 1) and 2) for complete adjustment. 		Pinch roller guide height adjustment adjustment PB head height adjustment PB head tilt adjustment
6	PB azimuth adjustment	Playing back the TMT702 tape (14 kHz segment), maximize the output level and adjust the phase by turning the screw ①.		

	Item	Adjustment and Checking Method	Standard Value	Checking Point
7	Tape travel check	Use C-90 cassette tape with a pad to check that the tape runs around the head without curling in the beginning portion.		Use mirror tape, etc. by which tape travel can be checked.
8	REC head height, tilt, azimuth adjustment	 Record the 10 kHz signal, and, playing it back adjust the screw E for phase adjustment at the maximum output level. (Azimuth adjustment) In the same manner as the step 1), adjust the phase with maximum output level by turning the screw (F). (Head height adjustment) In the same manner as mentioned about the PB head, correct front-/rearward lean of the REC head with M300 gauge. (Use screw (G).) Record the 10 kHz signalal, and playing it back readjust the azimuth adjusting screw (E) to obtain maximum output level. At the same time adjust phases of R and L channels. 		REC head tilt adjustment
9	Heads positioning	With the M300 gauge, check that the PB head is positioned ahead of the REC head.	0.05-0.35 mm	P
10		Other specifications are as follows. (Every measure except θ is a space to the guide post ⊕. — unit: mm) Guide post Head Head Head Head Head Head Adjust the head base by bending it in either direction so that "a" is 4.4—5.1 mm in MS mode. If "a" is out of the standard: Bend the indicated part in the direction of ↑ arrow. If "a" is less than the standard: Bend the indicated part in the direction of ↓ arrow. If the above adjustment is performed, make sure to confirm the item 10 of the following.		Front-back adjustment of head position PB head must be positioned ahead of REC head by "b" (see the figure). To position the head front-/rearward, use the screw P. (If P is turned, make sure to readjust the azimuth of PB and REC heads.)
10	Door safety check	In the condition that the door safety lever is moved in the direction of the arrow in the stop mode, regulate the space between the door safety lever and the head base as shown in the figure. Head base		

NOTE:

When the head was replaced, use the following check method after the height, direction and tilt (rough) of each head have been adjusted.

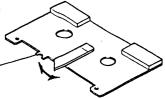
Tape travel adjustment

Use the M300 gauge. Be sure not to damage the head.

Tape guide adjustment method Use the jig to move the gauge in the direction of the arrow.

Reflection position (Guide post)

Direction of gauge movement



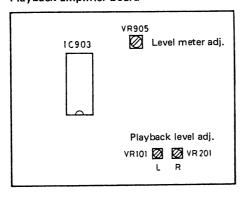
■ Mechanical Adjustments (2)

• Notice: 0 dBs = 0.775 V

Item	Adjustment and Checking Method	Adjusting Point	Standard Value	Remarks
Tape speed	 Connect a frequency counter to the LINE OUT terminals. Play back the VTT712 test tape. Adjust volume in motor for normal speed at 3000 Hz. 		Normal speed: 3005 b 10 Hz	
Checking wow and flutter	Connect a wow and flutter meter to the LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.038% (WRMS).		0.038% (JIS WRMS)	If the reading becomes moving value even if confirming to the standard, a reclaim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		35-75 gr-cm	If the standard torque is not obtained, replace the take-up disk assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		70 – 200 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		70 – 200 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, fly- wheel circumference, rewinding idler circum- ference, left reel disk circumference, etc.

■ Location of Adjustments

Playback amplifier board



Recording amplifier board

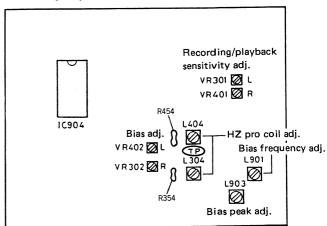


Fig. 6-1

■ Electrical Circuit Adjustment Procedures

Make the following adjustments after the tape travel and head angle adjustments.

- In principle, the adjustments should be made in the order described.
- Adjustments required after head replacement are marked with an asterisk (*).

0 dBs = 0.775 V

	Item	Adjustment and Check Methods			
1	Dolby circuit recording check (record mode)			Frequency Level	Output Value and Deviation
		rd mode) Record, Measurement po	INPUT: LINE IN (-8 dBs) Measurement point: IC905, pins (21), (22) Measurement point reference level: 400 Hz, -11 dBs (= Cal. level)	1 kHz Cal. –40 dB	+5.7 dB ± 2 dB
				5 kHz Cal. –20 dB	+3.5 dB ± 1.5 dB
				1 kHz Cal.	0 dB ± 0.5 dB
				1 kHz Cal40 dB	+16.2 dB ⁺³ ₋₂ dB
				5 kHz Cal. –20 dB	+2.9 dB ± 2.5 dB
				1 kHz Cal.	0 dB ± 1 dB

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks	
*2	Playback level adjustment	 Play the VTT724 (1 kHz) test tape and adjust VR101 and VR201 so that the LINE OUT output is -8 dBs (the L-R channel output difference must be 0.5 dBm or less). Headphone output check (headphone VR: max.): -15 dBm ± 3 dB L-R difference: 2 dB or less 	VR101, VR201	−8 dBm ± 0.5 dB	The playback level changes when the head is replaced and must be adjusted. Use an electronic voltmeter with an impedance of 100 $k\Omega$ or more.	
*3	Playback equalizer adjustment	Play the VTT739 (1 kHz, 10 kHz) test tape and confirm that deviation between 1 kHz and 10 kHz is less than $0\sim+1$ dB while deviation between 1 kHz and 63 Hz is $+2\pm3$ dB.		Deviation between 1 kHz & 10 kHz: 0~ +1 dB Deviation between 1 kHz & 63 Hz: +2 ± 3 dB	NR: OFF VTT739 can be used for TMT- 735 tape. However, there is a little difference in their specifi- cations as follows: TMT735 (1 kHz, 12.5 kHz) VTT739(63 Hz, 1 kHz, 10 kHz)	
*4	Bias frequency adjustment	Connect the frequency counter to the lead through a 1.0 $M\Omega$ resistor, and adjust L901 so that output at the test point is 210 kHz \pm 1 kHz. At the same time adjust L903 to maximize AC level.	L901 L903	130 – 170 mV approx. 210 kHz ± 1 kHz	Tape: METAL (Attach a probe to the measuring instrument lead terminal and plug in the connector plug.)	
5	HX PRO coil adjustment	In the METAL position recording mode, adjust L304 and L404 so that R354 and R454 voltages are minimum.	L304 L404	130 – 170 mV approx.	DC voltmeter Minimum voltage	
*6	Recording/ playback frequency adjustment	Record 1 kHz at the Ref. —20 dB input, then record 50 Hz and 12.5 kHz and adjust VR302 and VR402 so that the difference between the 1.25 kHz and 12.5 kHz outputs is the standard value in relation to the 1 kHz output during playback. (Basically, adjust so that the 1 kHz and 12.5 kHz outputs are the standard value.)	VR302 VR402	NORMAL tape: 1 ± 0.5 dB CrO ₂ /METAL tape: 1 ± 2 dB	Ref. —20 dB value: —20 dB below the reference input value—28 dB Also adjust for normal tape and the left and right channels. • The bias value is set in accordance with the voltage shift for normal at chrome and metal. • When the bias current is not correctly adjusted, the recording characteristics will become	
Appropriate Bias Current High Bias Current High-Range Drop 1 KHz 12.5kHz High-Range Rise Frequency					as shown on the left.	

	Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
*7	Recording/ playback sensitivity adjustment	 Input to the LINE IN terminal so that the source monitor output is -8 dBs. Adjust VR301 and VR401 so that the recording signal current is -8 dBs during recording and playback. 	VR301 VR401	Chrome, Metal:	The right and left level difference must be 1 dB or less for both normal and metal. Make adjustment by using normal tape, and make sure that the level fluctuation for chrome and metal tapes is within 1.5 dB.
8	Level indicator adjustment and check	 Apply a 1 kHz signal so that the line output level at the source monitor is -38 dB and adjust VR-905 so that -30 dB on the FL level indicator shall go out at the -40 dB level. Check that the 0 dB indicator lights at the -8 dBs +0 dB signal level. 	∨R905	Lights at -30 dBs input Goes out at -40 dBs input	
9	Recording/ playback distortion check	 Record a 1 kHz signal so that the LINE OUT output is -8 dBs and the level indicator is +0 dB. Use a distortion meter to check if the output is the standard value during playback. 		Normal tape: 3.0% or less Chrome tape: 4% or less Metal tape: 3% or less	Check after adjusting the bias current and recording level.
10	Recording/ playback S/N ratio check	 Record 1 kHz, 0 dB input and then remove the input and record without a signal. Play back this recording and measure the difference between the 0 dB recording and no-signal recording. The standard values must be satisfied. 		Normal tape: more than 45 dB Chrome tape: more than 45 dB Metal tape: more than 45 dB	
11	Erase ratio check	 Apply a 1 kHz signal from LINE IN and adjust the INPUT LEVEL knob so that the input level is -8 dBs. Increase the signal level to 20 dB and record. Rewind and erase the recorded section of the tape. Measure the output ratio between the signal and no-signal sections of the tape with an electronic voltmeter. 		More than 65 dB	Connect a B.P.F.(band pass filter) between the deck and the electronic voltmeter. 1 kHz 0 VU Perase 1 kHz Band pass filter (B.P.F.) Electronic voltmeter

7 Block Diagrams

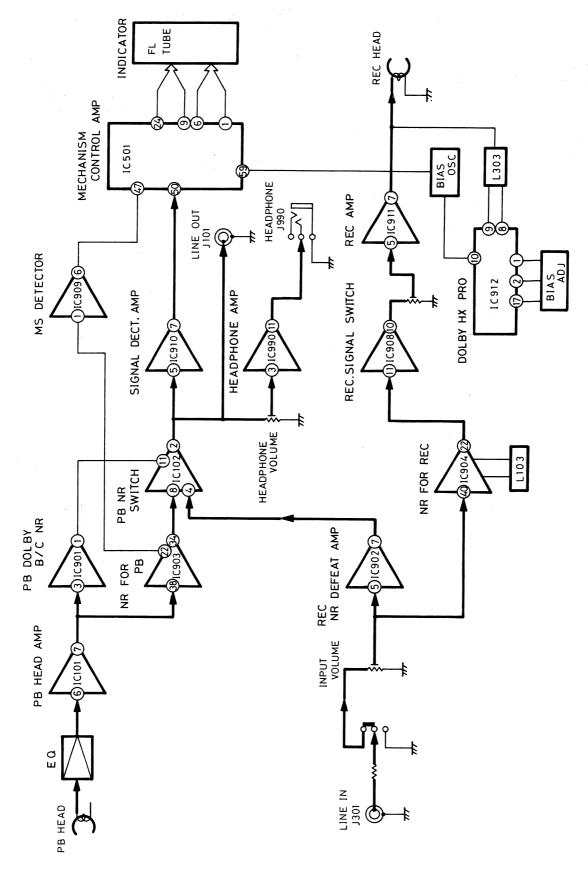
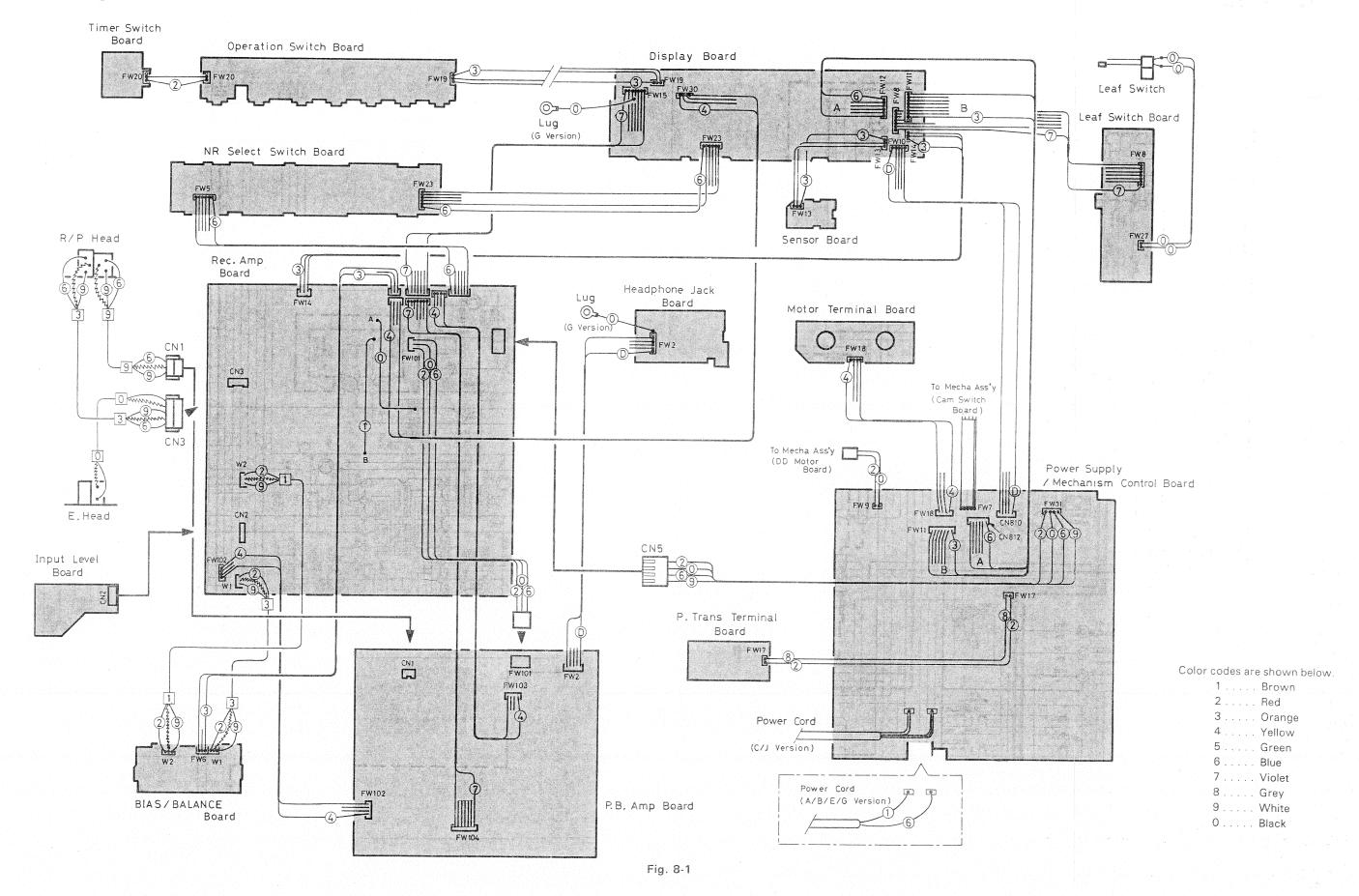
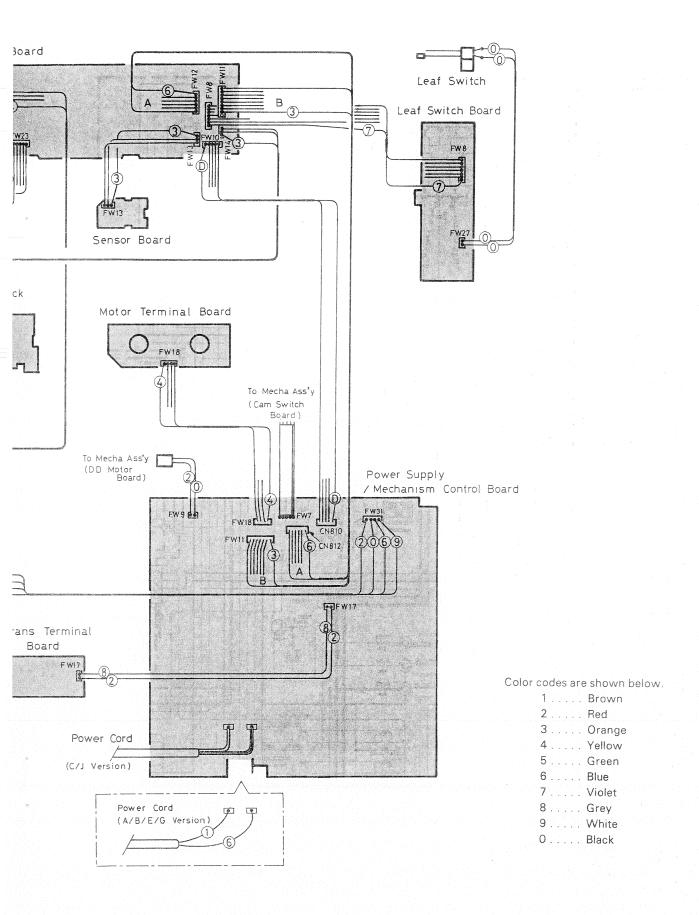


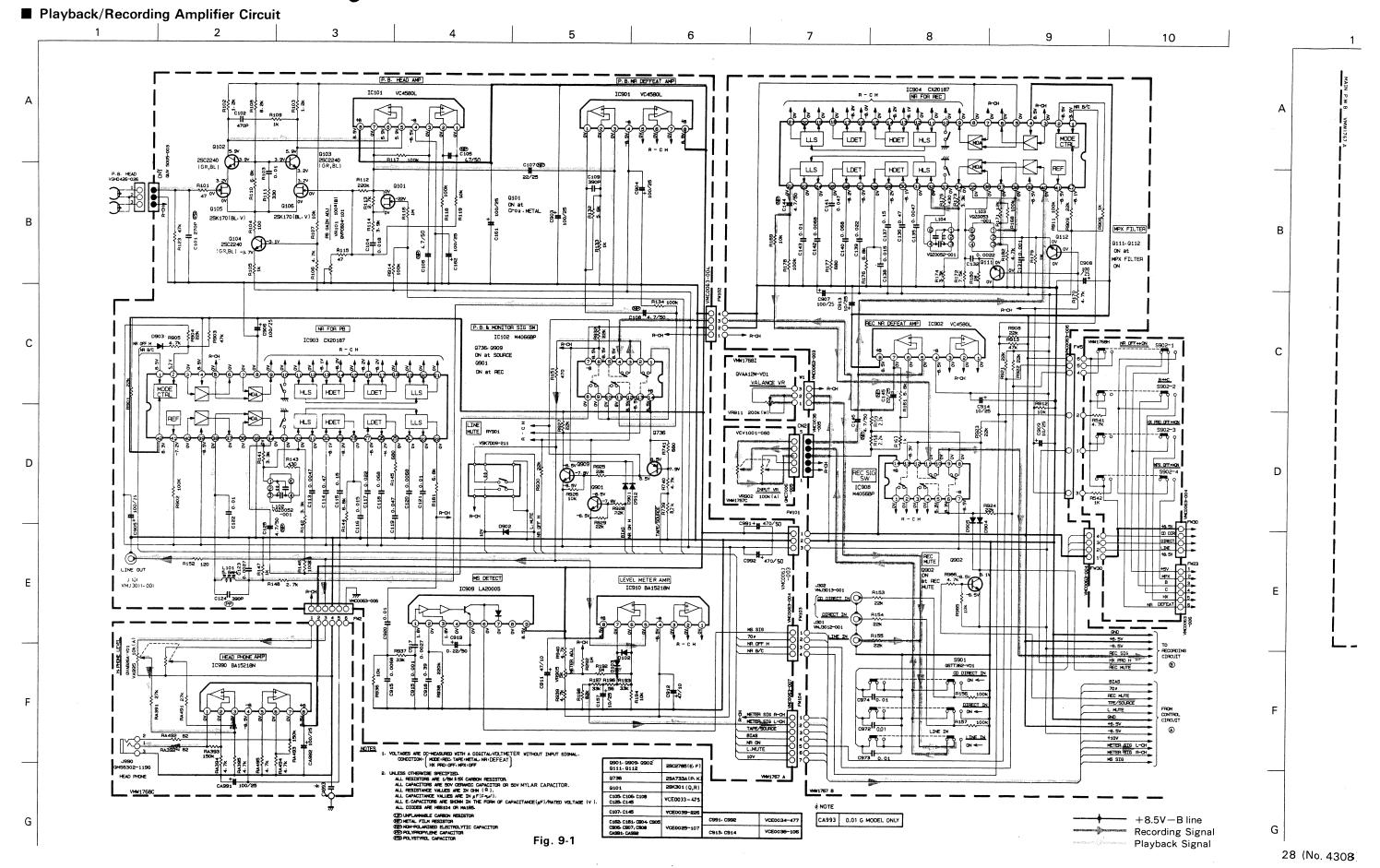
Fig. 7-1

8 Wiring Connections

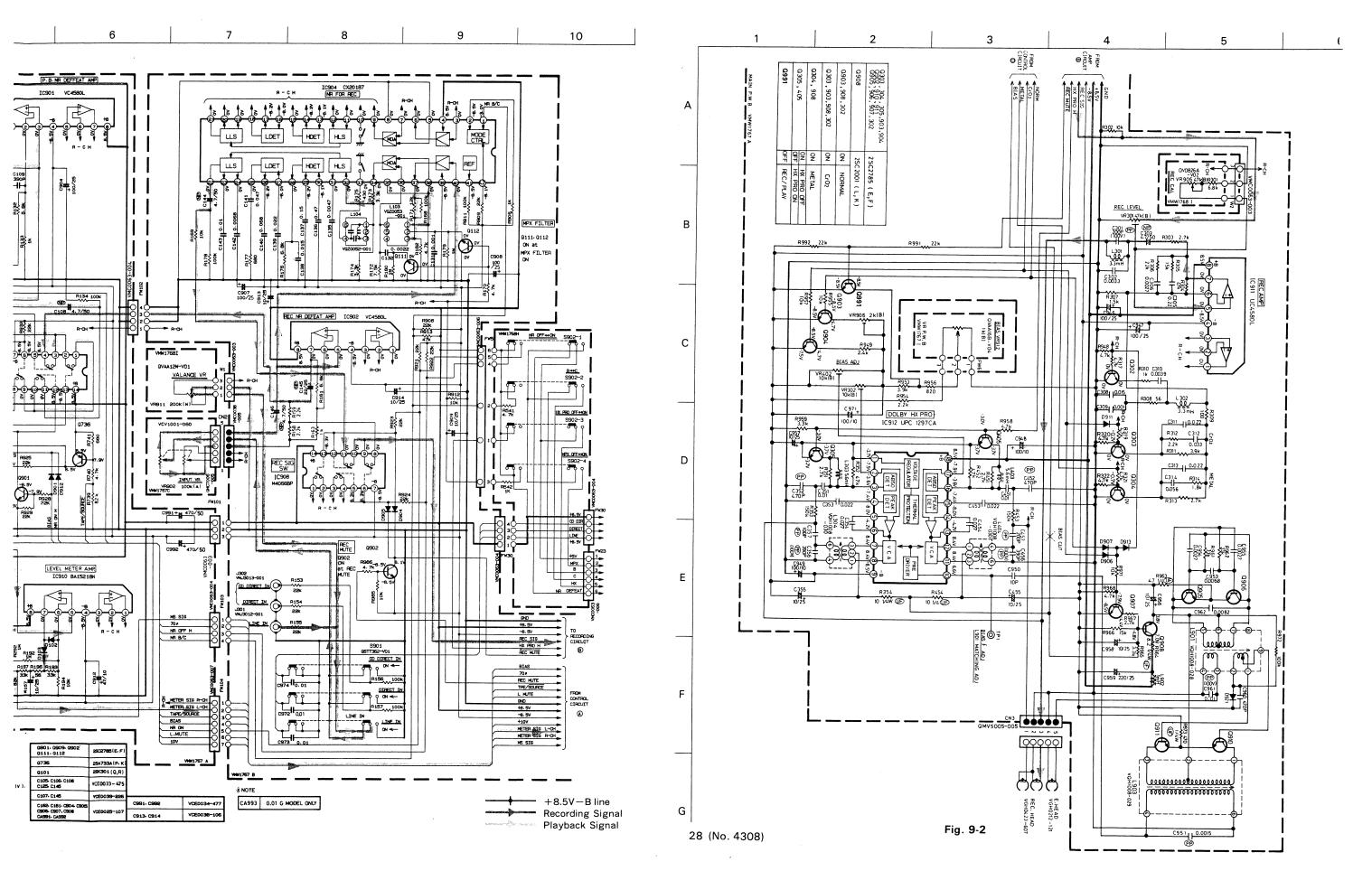


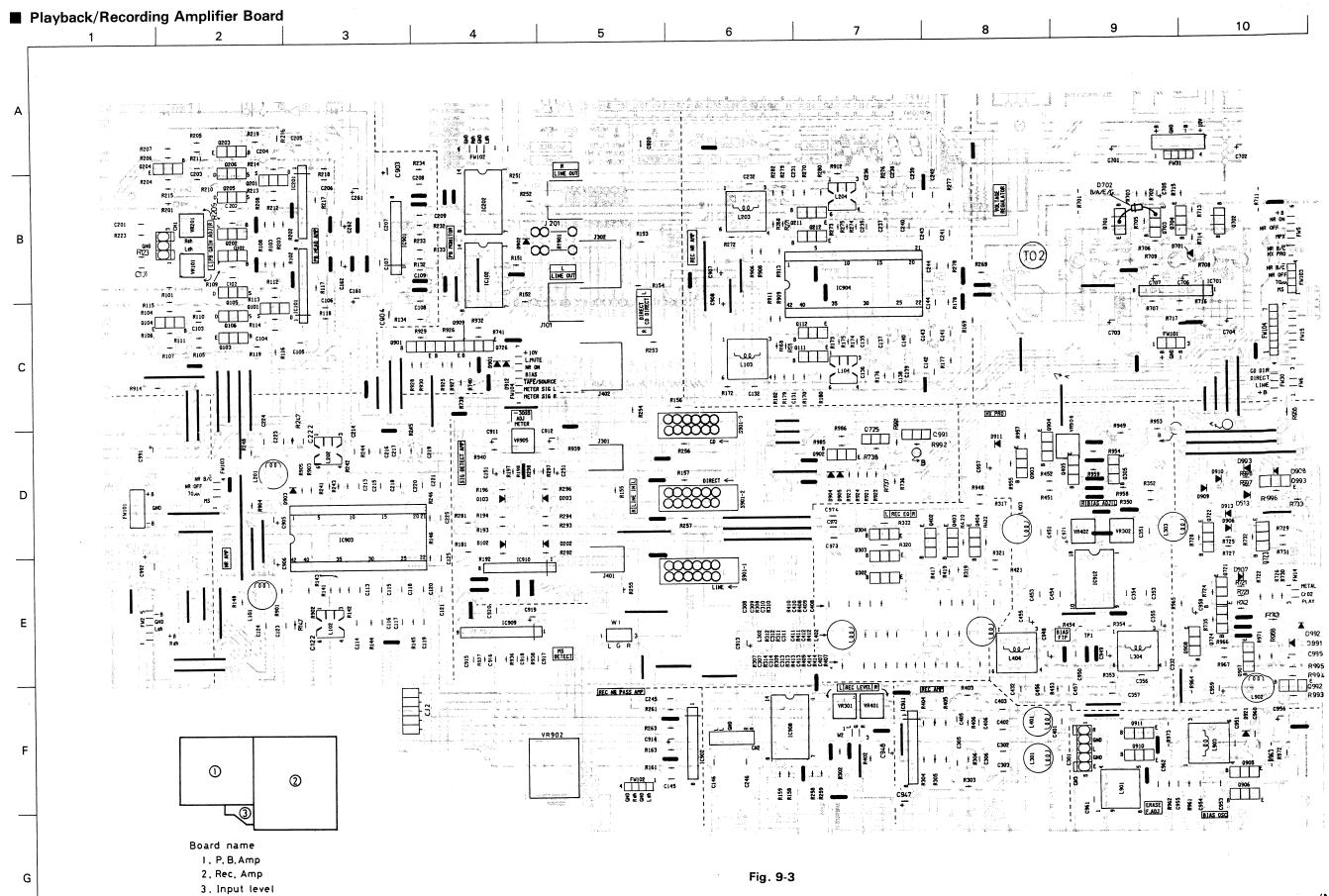


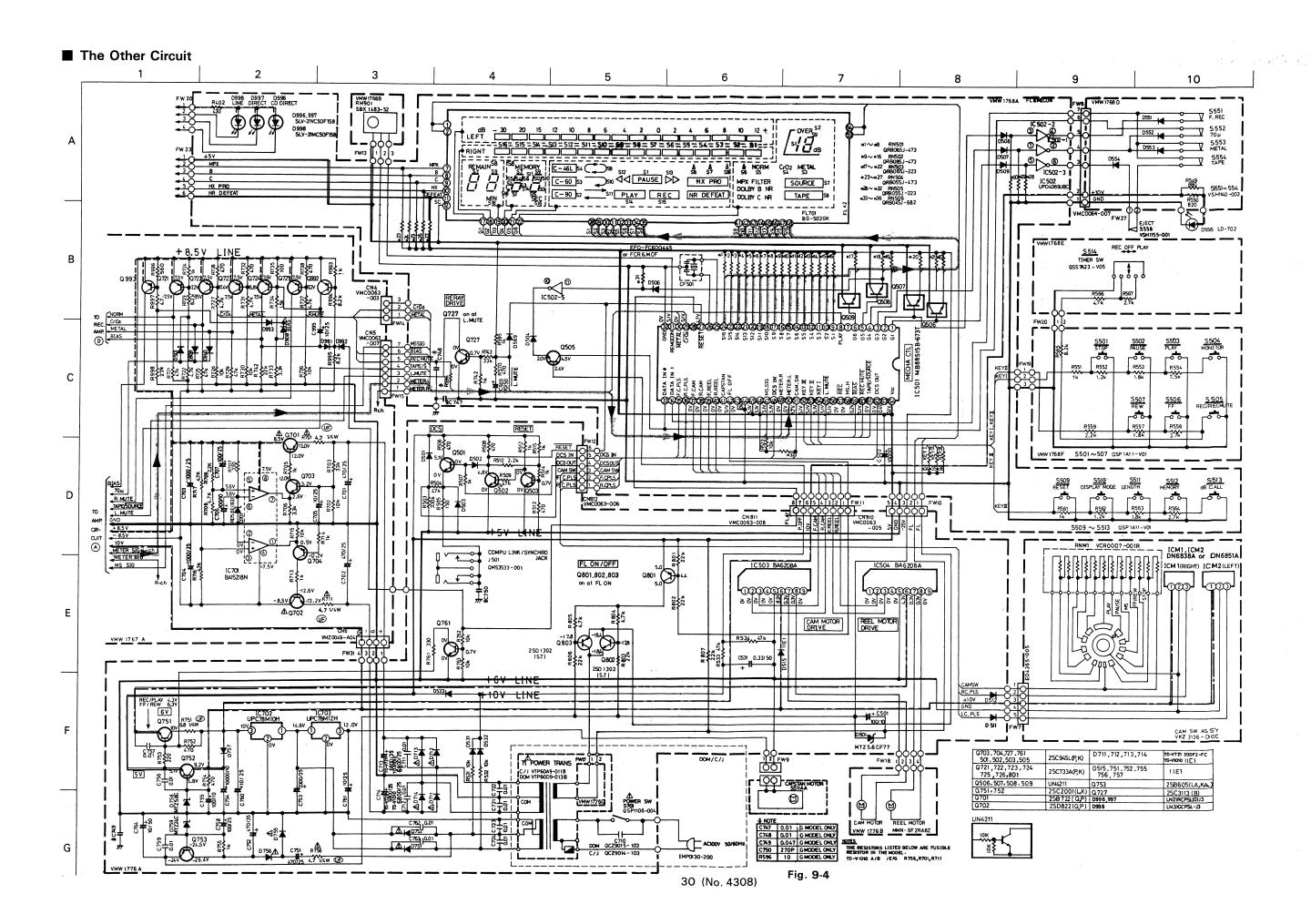
9 Standard Schematic Diagram and Location of P. C. Board

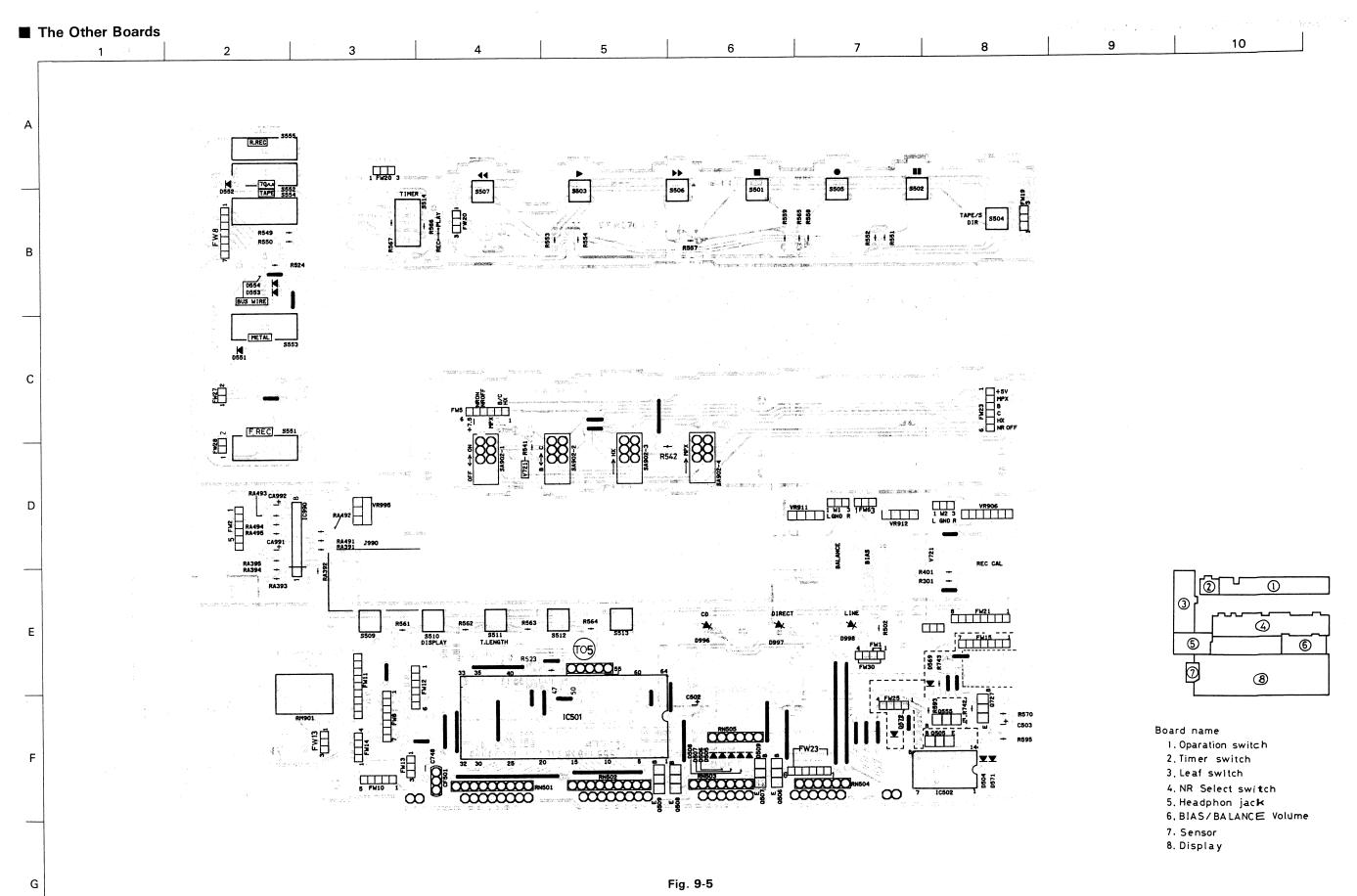


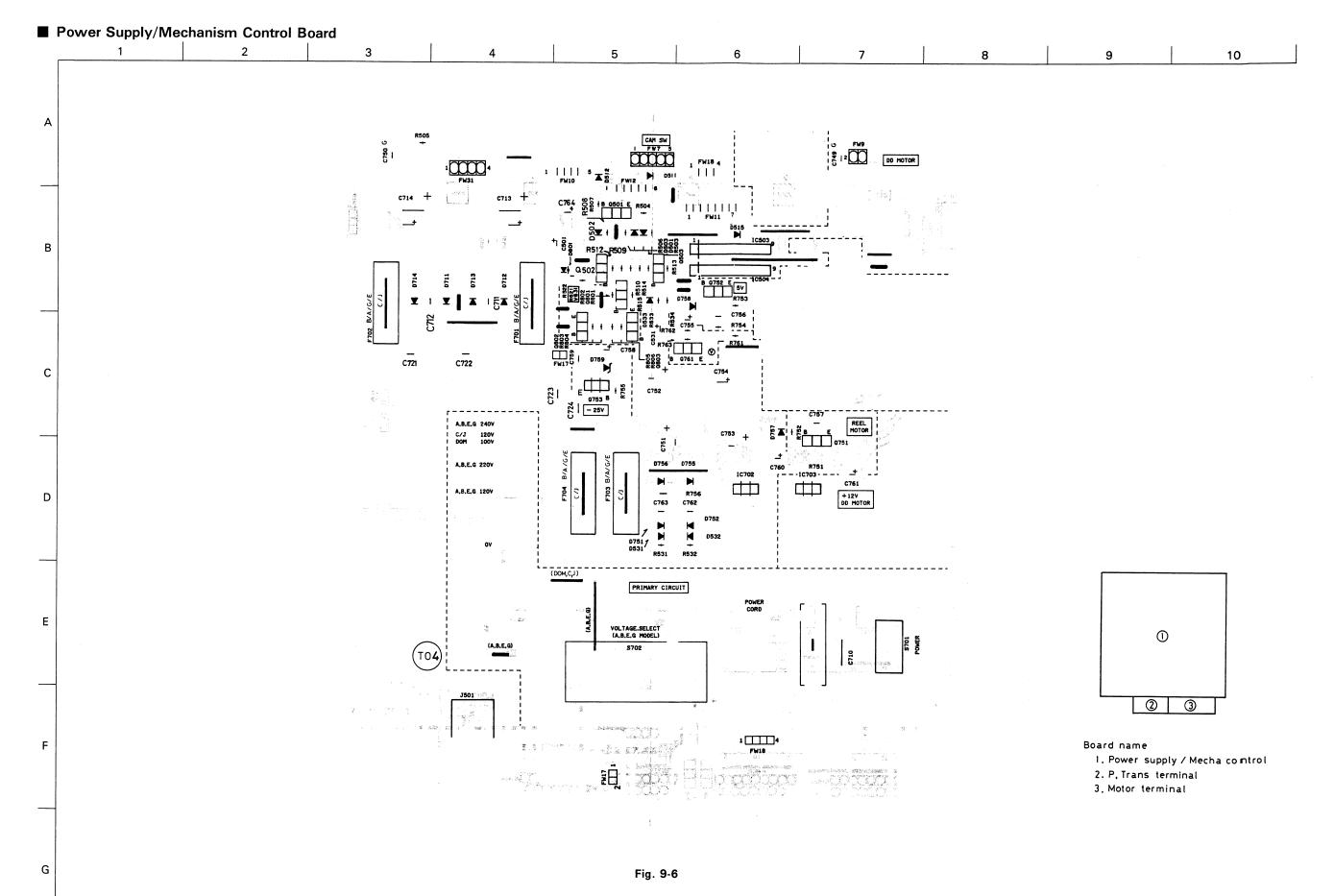
of P. C. Board











10 P. C. Board Parts List

		T	T	
⚠	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
-			20 042401700	27005 FM FOU
1		QFS41HJ-271	PS.CAPACITOR	270PF 5% 50V
1	C102	QFP31HJ-471ZM	PP.CAPACITOR	470PF 5% 50V
ļ	C103	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	C104	QFV71HJ-183ZM	TF.CAPACITOR	.018MF 5% 50V
İ	C105	VCE0033-475	E CAP(TAPING)	
1-	C106	VCE0033-475	E CAP(TAPING)	
1	C107	VCE0039-226	E.CAP(TAPING)	;
1		VCE0033-475	E CAP(TAPING)	;
		QFP31HJ-391Z	P.P.CAPA.	390PF 5% 50V
1	C113	QFN31HJ-472Z	M.CAPACITOR	4700PF 5% 50V
		QFV71HJ-474ZM	3F.CAPACITOR	.47MF 5% 50V
1	C114			.15MF 5% 50V
ı	C115	QFV71HJ-154ZM	TF.CAPACITOR	
l		QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
İ		QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
١	C118	QFV71HJ-683ZM	TF.CAPACITOR	.068MF 5% 50V
1	C119	QFV71HJ-473ZM	TF.CAPACITOR	.047MF 5% 50V
l	C120	QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
l	C121	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	i	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	1 "	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
1-	C124	QFP31HJ-391Z	P.P.CAPA.	390PF 5% 50V
		VCE0033-475	E CAP(TAPING)	,
			M.CAPACITOR	1000PF 5% 50V
		QFN31HJ-102Z	1 '	2200PF 5% 50V
	1	QFN31HJ-222Z	M CAPACITOR	
		QFN31HJ-472Z	M.CAPACITOR	4700PF 5% 50V
1	1	QFV71HJ-474ZM	3F.CAPACITOR	_47MF 5% 50V
1	i	QFV71HJ-154ZM	TF.CAPACITOR	.15MF 5% 50V
	C138	QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
1	C139	QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
	1	QFV71HJ-683ZM	TF.CAPACITOR	.068MF 5% 50V
	C141	QFV71HJ-473ZM	TF.CAPACITOR	.047MF 5% 50V
		QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
į .	C143	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
1	C144	VCE0033-475	E CAP(TAPING)	
	1	VCE0039-226	E.CAP(TAPING)	,
	C145		E CAP(TAPING)	
1	C146	VCE0033-475		10ME 209 25V
1	C151	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
	C161	VCE0025-107	E CAP(TAPING)	;
1	C162	VCE0025-107	E CAP(TAPING)	
١.	C201	QFS41HJ-271	PS.CAPACITOR	270PF 5% 50V
1	C202	QFP31HJ-471ZM	PP.CAPACITOR	470PF 5% 50V
	C203	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
		QFV71HJ-183ZM	TF.CAPACITOR	.018MF 5% 50V
	C205	VCE0033-475	E CAP(TAPING)	
	C206	VCE0033-475	E CAP(TAPING)	,
-	C207	VCE0039-226	E.CAP(TAPING)	
		VCE0033-475	E CAP(TAPING)	
			1	390PF 5% 50V
1	1	QFP31HJ-391Z	P.P.CAPA.	
	C213	QFN31HJ-472Z	M.CAPACITOR	4700PF 5% 50V
<u>_</u>	C214	QFV71HJ-474ZM	3F.CAPACITOR	.47MF 5% 50V
	C215	QFV71HJ-154ZM	TF.CAPACITOR	.15MF 5% 50V
	C216	QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
		QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
	C218	QFV71HJ-683ZM	TF.CAPACITOR	.068MF 5% 50V
	C219	QFV71HJ-473ZM	TF.CAPACITOR	.047MF 5% 50V
-		QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
		QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	C222	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	C223	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
	C224	QFP31HJ-391Z	P.P.CAPA.	390PF 5% 50V
1-	C225	VCE0033-475	E CAP(TAPING)	
1		QFN31HJ-102Z	M.CAPACITOR	1000PF 5% 50V
	C231			2200PF 5% 50V
	C232	QFN31HJ~222Z	M CAPACITOR	
	C235	QFN31HJ-472Z	M.CAPACITOR	4700PF 5% 50V
ļ	C236	QFV71HJ-474ZM	3F.CAPACITOR	.47MF 5% 50V
l	C237	QFV71HJ-154ZM	TF.CAPACITOR	.15MF 5% 50V
1	C238	QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
1	C239	QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
1	C240	QFV71HJ-683ZM	TF.CAPACITOR	.068MF 5% 50V
İ	C241	QFV71HJ-473ZM	TF.CAPACITOR	.047MF 5% 50V
-	C242	QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
	C243	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	C244	VCE0033-475	E CAP(TAPING)	
1			E.CAP(TAPING)	
	C245	VCE0039-226	l .	
L	C246	VCE0033-475	E CAP(TAPING)	L

Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
T	C251	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
	C261	VCE0025-107	E CAP(TAPING)	
	0262	VCE0025-107	E CAP(TAPING)	,
	0301	QFP32AJ-151ZM	PP CAPACITOR	150PF 5% 100V
	C302	QFN31HJ~332Z	M.CAPACITOR	3300PF 5% 50V
	C303	VCE0033-475	E CAP(TAPING)	
ŀ	C305	QFV71HJ-224ZM	TF CAPACITOR	.22MF 5% 50V
- [C306	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
	C308	QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
	C309	QFN31HJ-102Z	M.CAPACITOR	1000PF 5% 50V
-	C310	QFN31HJ-392Z	M CAPACITOR	3900PF 5% 50V
		QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
1	C311	1	TF.CAPACITOR	.033MF 5% 50V
	C312	QFV71HJ-333ZM	1	
	C313	QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
	C314	QFV71HJ-563ZM	TF.CAPACITOR	.056MF 5% 50V
	C351	QFV71HJ~103ZM	TF.CAPACITOR	.010MF 5% 50V
	C352	QFP31HJ-471ZM	PP.CAPACITOR	470PF 5% 50V
- [C353	QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
	C354	QFV71HJ-273ZM	TF.CAPACITOR	.027MF 5% 50V
	C355	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
	C356	QFP32AJ-391ZM	PP CAPACITOR	390PF 5% 100V
	C357	QFP31HJ~101ZM	PP CAPACITOR	100PF 5% 50V
	C401	QFP32AJ-151ZM	PP CAPACITOR	150PF 5% 100V
	C402	QFN31HJ-332Z	M.CAPACITOR	3300PF 5% 50V
	C403	VCE0033-475	E CAP(TAPING)	
1	C405	QFV71HJ-224ZM	TF CAPACITOR	.22MF 5% 50V
	C406	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
	C408	QFV71HJ-153ZM	TF.CAPACITOR	.015MF 5% 50V
1	C409	QFN31HJ-102Z	M.CAPACITOR	1000PF 5% 50V
1	C410	QFN31HJ-392Z	M CAPACITOR	3900PF 5% 50V
ł	C411	QFV71HJ-223ZM	TF. CAPACITOR	.022MF 5% 50V
	C412	QFV71HJ-333ZM	TF.CAPACITOR	.033MF 5% 50V
	C413	QFV71HJ-223ZM	TF.CAPACITOR	.022MF 5% 50V
ł	C413	QFV71HJ-563ZM	TF.CAPACITOR	.056MF 5% 50V
	C414 C451	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V
	THE RESIDENCE TAXABLE AND ADDRESS OF TAXABLE PARTY.	QFP31HJ-471ZM	PP.CAPACITOR	470PF 5% 50V
	C452		TF.CAPACITOR	.022MF 5% 50V
	C453	QFV71HJ-223ZM		.022MF 5% 50V
	C454	QFV71HJ-273ZM	TF.CAPACITOR	10MF 20% 25V
1	C455	QETC1EM~106ZM	E.CAPACITOR	
	C456	QFP32AJ-391ZM	PP CAPACITOR	390PF 5% 100V
	C457	QFP31HJ-101ZM	PP CAPACITOR	100PF 5% 50V
	C701	QETB1HM-227N	E CAPACITOR	220MF 20% 50V
	C702	QETB1HM-227N	E CAPACITOR	220MF 20% 50V
	C703	QETB1HR-477N	E CAPACITOR	470MF +30:-10% 50V
	C704	QETB1HR-477N	E CAPACITOR	470MF +30:-10% 50V
	C705	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
	C706	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
-	C707	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
	C903	VCE0025-107	E CAP(TAPING)	
	C904	VCE0025-107	E CAP(TAPING)	
-1	C905	VCE0025-107	E CAP(TAPING)	
1	0906	VCE0025-107	E CAP(TAPING)	
	C907	VCE0025-107	E CAP(TAPING)	
- [C908	VCE0025-107	E CAP(TAPING)	
\exists	0909	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
[C911	QETC1AM-476ZM	E.CAPACITOR	47MF 20% 10V
- 1	C912	QETC1AM-476ZM	E.CAPACITOR	47MF 20% 10V
	C913	VCE0036-106	E CAP(TAPING)	
-	C914	VCE0036-106	E CAP(TAPING)	
-	C915	QFN31HJ-102Z	M.CAPACITOR	1000PF 5% 50V
- 1	C916	QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
- [C917	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
	C918	QFV71HJ-394ZM	TF.CAPACITOR	.39MF 5% 50V
-	C919	QETB1HM-224N	E.CAPACITOR	.22MF 20% 50V
	C920	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
				*OTOH! JW JOA
- 1	C946	VCE0025-107	E CAP(TAPING)	
	C947	VCE0025-107	E CAP(TAPING)	400ME 20M 40M
ŀ	C948	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
- [C949	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
. 1	C950	QCS31HJ-100Z	C.CAPACITOR	10PF 5% 50V
-	C951	QFP82AJ-152	P.P.CAPACITOR	1500PF 5% 100V
Į	C953	QFN31HJ-682Z	M.CAPACITOR	6800PF 5% 50V
	C954	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V
ı				1
	C955	QFN31HJ-272Z	M.CAPACITOR	2700PF 5% 50V

Ţ	DEE NO	DARTS NO	DADTS NAME	DESCRIPTION
Δ	REF. NO	PARTS NO.	PARTS NAME	
- [C957	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V 10MF 20% 25V
-	C958	QETC1EM-106ZM QETB1EM-227N	E.CAPACITOR E.CAPACITOR	220MF 20% 25V
-	C959 C960	QFP31HJ-471ZM	PP.CAPACITOR	470PF 5% 50V
	C961	QFP82AJ-103	P.P.CAPACITOR	.010MF 5% 100V
	C962	QFN31HJ-822Z	M. CAPACITOR	8200PF 5% 50V
1	C971	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
	C972	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
-	C973	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
	C974	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
	C991	QETB1HR-477N	E CAPACITOR	470MF +30:-10% 50V
	C992	QETB1HR-477N	E CAPACITOR	470MF +30:-10% 50V
	C995	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
	D102	HSS104TJ	SI DIODE	
	D103	HSS104TJ	SI DIODE	
	D505	HSS104TJ	SI DIODE	
	D203	HSS104TJ	SI DIODE	
	D513	HSS104TJ	SI DIODE	
	D701	RD5.6E(B3)	ZENER DIODE	
	D702	MA165	SI DIODE	
	D901	HSS104TJ	SI DIODE	
1	D902 D903	HSS104TJ	SI DIODE	
	D903	HSS104TJ HSS104TJ	SI DIODE	
	D904 D905	HSS104TJ	SI DIODE	·
	D906	HSS104TJ	SI DIODE	
-	D907	HSS104TJ	SI DIODE	
	D908	HSS104TJ	SI DIODE	
	D909	HSS104TJ	SI DIODE	
1	D910	HSS104TJ	SI DIODE	
	D911	HSS104TJ	SI DIODE	
	D912	HSS104TJ	SI DIODE	
	D913	HSS104TJ	SI DIODE	ļ
	D921	HSS104TJ	SI DIODE	
- L	D991	HSS104TJ	SI DIODE	
	D992	HSS104TJ	SI DIODE	
	D993	HSS104TJ	SI DIODE	
	IC101 IC102	VC4580L M4066BP	IC	
	10201	VC4580L	li c	
	10201	M4066BP	li c	
	10701	BA15218N	īc	
	IC901	VC4580L	I C	
	10902	VC4580L	I C	
	10903	CX20187	DOLBY IC	
	IC904	CX20187	DOLBY IC	
	10908	M4066BP	I C	
	10909	LAZOOOS	I C	
$ \cdot $	IC910	BA15218N	I C	
\dashv	IC911 IC912	VC4580L UPC1297CA	I C	
	J101	VMJ3011-001	PIN JACK	
	J201	VMJ3011-001	PIN JACK	
	J301	VMJ3012-001	PIN JACK	
	J302	VMJ3013-001	PIN JACK	
	J401	VMJ3012-001	PIN JACK	
	J402	VMJ3013-001	PIN JACK	
	L101	VQP0001-562S	INDUCTOR	
	L102	VQZ0052-001	FILTER	
	L103	VQZ0053-001	FILTER FILTER	
	L104 L201	VQZ0052-001 VQP0001-562S	INDUCTOR	
	L201	VQZ0052-001	FILTER	
	L202	VQZ0052-001	FILTER	
	L204	VQZ0052-001	FILTER	
-	L301	VQP0001-3325	INDUCTOR	
	L302	VQP0001-332S	INDUCTOR	
	L303	VQP0013-562	INDUCTOR	
	L304	VQH1008-030	OSC COIL(BIAS)	
Ш		VQP0001-332S	INDUCTOR	
	L401		TANDUCTOR	
	L401 L402	VQP0001-332S	INDUCTOR	
		VQP0001-332S VQP0013-562	INDUCTOR	
	L402		INDUCTOR OSC COIL(BIAS)	
	L402 L403	VQP0013-562	INDUCTOR	

REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
L903	VQH1008-029	OSC COIL(BIAS)	
Q101	25K301(Q,R)TA	FET I.M	
Q102	2SC2240(GR,BL)T	TRANSISTOR TRANSISTOR	
Q103	2SC2240(GR,BL)T 2SC2240(GR,BL)T	TRANSISTOR	
Q104 Q105	2SK170V(BL,V)	FET	
Q106	25K17OV(BL,V)	FET	
Q111	2SC2785(E,F)-T	TRANSISTOR	
Q112	28C2785(E,F)-T	TRANSISTOR	
Q201	2SK301(Q,R)TA	FET I.M	
0202	2SC2240(GR,BL)T	TRANSISTOR	
Q203	2SC2240(GR,BL)T	TRANSISTOR	
Q204	2SC2240(GR,BL)T	TRANSISTOR	
Q205	2SK170V(BL,V)	FET	
0206	2SK170V(BL,V)	FET	
Q211	2SC2785(E,F)~T	TRANSISTOR	
Q212	2SC2785(E,F)-T	TRANSISTOR TRANSISTOR	
Q302	2SC2785(E,F)-T 2SC2785(E,F)-T	TRANSISTOR	
Q303	2SC2785(E,F)-T	TRANSISTOR	
Q304 Q305	2SC2785(E,F)-T	TRANSISTOR	
0402	25C2785(E/F)-T	TRANSISTOR	
Q403	2SC2785(E,F)-T	TRANSISTOR	
Q404	2SC2785(E,F)-T	TRANSISTOR	
Q405	2SC2785(E,F)-T	TRANSISTOR	
Q701	2SB772(Q,P)	TRANSISTOR	
Q702	2SD882(Q,P)	T.R (フソックヒン)	
Q703	2SC2785(E,F)-T	TRANSISTOR	
Q704	2SA733A(P,K)-T	TRANSISTOR	
Q721	2SA733A(P,K)-T	TRANSISTOR	
0722	2SA733A(P,K)-T	TRANSISTOR	
Q723	2SA733A(P,K)-T	TRANSISTOR	
Q724	2SA952(L,K)-T	TRANSISTOR TRANSISTOR	
Q725	2SA733A(P,K)-T 2SA733A(P,K)-T	TRANSISTOR	
Q726 Q901	2SC2785(E,F)-T	TRANSISTOR	
0902	2SC2785(E,F)-T	TRANSISTOR	
Q903	2SC2785(E,F)-T	TRANSISTOR	
0904	2SC2785(E,F)-T	TRANSISTOR	
Q905	2SC2785(E,F)-T	TRANSISTOR	
Q906	2SC2785(E,F)-T	TRANSISTOR	
Q907	2SC2785(E,F)-T	TRANSISTOR	
Q908	2SC2001(L,K)-T	TRANSISTOR	
0909	2SC2785(E,F)-T	TRANSISTOR	
Q910	2SC2785(E,F)-T	TRANSISTOR	
0911	2SC2785(E,F)-T	TRANSISTOR	
Q912	2SC2785(E,F)-T	TRANSISTOR	
0992	2SA733A(P,K)-T	TRANSISTOR	
Q993	2SA733A(P,K)-T VSK7D09-211	TRANSISTOR RELAY	
RY901 R101	QRD161J-470Y	CARBON RESISTOR	47 5% 1/6W
R101	QRD161J-122Y	CARBON RESISTOR	1.2K 5% 1/6W
R103	QRD161J-122Y	CARBON RESISTOR	
R104	QRD161J-101Y	CARBON RESISTOR	
R105	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
R106	QRD161J-472Y	CARBON RESISTOR	
R107	QRD161J-103Y	CARBON RESISTOR	
R108	QRD161J-822Y	CARBON RESISTOR	
R109	QRD161J-102Y	CARBON RESISTOR	
R110	QRD161J-682Y	CARBON RESISTOR	
R111	QRD161J-331Y	CARBON RESISTOR	4
R112 R113	QRD161J-224Y QRD161J-272Y	CARBON RESISTOR	I .
R113	QRD161J-332Y	CARBON RESISTOR	1
R115	QRD161J-470Y	CARBON RESISTOR	1
R116	QRD161J-105Y	CARBON RESISTOR	
R117	QRD161J-104Y	CARBON RESISTOR	t .
R118	QRD161J-104Y	CARBON RESISTOR	
R119	QRD161J-103Y	CARBON RESISTOR	
R123	QRD161J-473Y	CARBON RESISTOR	• • • • • • • • • • • • • • • • • • • •
R132	QRD161J-562Y	CARBON RESISTOR	7 5.6K 5% 1/6W
R133	QRD161J-102Y	CARBON RESISTOR	l
R134	QRD161J-104Y	CARBON RESISTOR	
L D1/1	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
R141 R142	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W

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Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	R143	QRD161J-431Y	C RESISTOR	430 5% 1/6W
	R144	QRD161J-682Y	CARBON RESISTOR	6.8K 5% 1/6W
	R145	QRD161J-681Y	CARBON RESISTOR	
	R146	QRD161J-104Y	CARBON RESISTOR	
	R147	QRD161J-102Y	CARBON RESISTOR	
	R148	QRD161J-272Y	CARBON RESISTOR	
	R151	QRD161J-471Y	CARBON RESISTOR	
	R152	QRD161J-121Y	CARBON RESISTOR	
1		QRD161J-223Y	CARBON RESISTOR	
	R154	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
-		QRD161J-223Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	
		QRD161J-222Y	CARBON RESISTOR	
H	R159	QRD161J-222Y	CARBON RESISTOR	
l · · ·		QRD161J-682Y	CARBON RESISTOR	
		QRD161J-102Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	100K 5% 1/6W
			CARBON RESISTOR	
		QRD161J-472Y	CARBON RESISTOR	
-		QRD161J-123Y	CARBON RESISTOR	
			CARBON RESISTOR	
		QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
		QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
		QRD161J-431Y	C RESISTOR	430 5% 1/6W
		QRD161J-682Y	CARBON RESISTOR	
			CARBON RESISTOR	
		i i	CARBON RESISTOR	
			CARBON RESISTOR	and the second s
			CARBON RESISTOR	
		QRD161J-682Y	CARBON RESISTOR	
			CARBON RESISTOR	
1			CARBON RESISTOR	
1 1			CARBON RESISTOR	
		QRD161J-103Y	CARBON RESISTOR	
		QRD161J-560Y	CARBON RESISTOR	
			CARBON RESISTOR	
li			CARBON RESISTOR	
			CARBON RESISTOR	47 5% 1/6W
1 1	R202	QRD161J-122Y	CARBON RESISTOR	1.2K 5% 1/6W
	R203	QRD161J-122Y	CARBON RESISTOR	1.2K 5% 1/6W
1	R204	QRD161J-101Y	CARBON RESISTOR	100 5% 1/6W
	R205	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R206	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R207	QRD161J-103Y	CARBON RESISTOR	
	R208	QRD161J-822Y	CARBON RESISTOR	8.2K 5% 1/6W
	R209	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
			CARBON RESISTOR	
	R211	QRD161Ĵ-331Y	CARBON RESISTOE	330 5% 1/6W
		QRD161J-224Y	CARBON RESISTOR	
П				2.7K 5% 1/6W
	*		CARBON RESISTOR	
			CARBON RESISTOR	
			CARBON RESISTOR	
_ .		QRD161J-104Y	CARBON RESISTOR	
П		QRD161J-104Y	CARBON RESISTOR	
			CARBON RESISTOR	
			CARBON RESISTOR	
			CARBON RESISTOR	
_ .		QRD161J-102Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	
		QRD161J-332Y	CARBON RESISTOR	
		QRD161J-332Y	CARBON RESISTOR	
		QRD161J-431Y	C RESISTOR	430 5% 1/6W
-		QRD161J-682Y	CARBON RESISTOR	
	R245	QRD161J-681Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	
		QRD161J-102Y	CARBON RESISTOR	
		QRD161J-272Y	CARBON RESISTOR	
╟╌┼	R251	QRD161J-471Y	CARBON RESISTOR	
	R252	QRD161J-121Y	CARBON RESISTOR CARBON RESISTOR	
	R253	QRD161J-223Y QRD161J-223Y	CARBON RESISTOR	
П		QRD161J-223Y	CARBON RESISTOR	
	R256	QRD161J-104Y	CARBON RESISTOR	
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R257 QRD161J-104Y CARBON RESISTOR 100K 5% 1/6W CARBON RESISTOR 2.2K 5% 1/6W R259 QRD161J-222Y CARBON RESISTOR 2.2K 5% 1/6W R265 QRD161J-102Y CARBON RESISTOR 1.2K 5% 1/6W R265 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R265 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 QRD161J-32Y CARBON RESISTOR 1.0K 5% 1/6W R270 QRD161J-32Y CARBON RESISTOR 1.0K 5% 1/6W R273 QRD161J-32Y CARBON RESISTOR 3.5K 5% 1/6W R273 QRD161J-332Y CARBON RESISTOR 7.5K 4/6W R273 QRD161J-332Y CARBON RESISTOR 3.5K 5% 1/6W R275 QRD161J-681Y CARBON RESISTOR 3.5K 5% 1/6W R276 QRD161J-681Y CARBON RESISTOR 3.5K 5% 1/6W R276 QRD161J-681Y CARBON RESISTOR 3.5K 5% 1/6W R277 QRD161J-681Y CARBON RESISTOR 6.6K 5% 1/6W R277 QRD161J-681Y CARBON RESISTOR 1.0K 5% 1/6W R278 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R278 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R280 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R281 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-05Y CARBON RESISTOR 1.0K 5% 1/6W R282 QRD161J-105Y CARBON RESISTOR 1.0K 5% 1/6W R283 QRD161J-105Y CARBON RESISTOR 1.0K 5% 1/6W R283 QRD161J-105Y CARBON RESISTOR 1.0K 5% 1/6W R283 QRD161J-105Y CARBON RESISTOR 1.0K 5% 1/6W R283 QRD161J		DEE NO	DADTS NO	DADTE NAME	DESCRIPTION
R258 ORD161J-222Y CARBON RESISTOR 2.2K 5% 1/6W R261 ORD161J-682Y CARBON RESISTOR 2.2K 5% 1/6W R262 ORD161J-102Y CARBON RESISTOR 6.8K 5% 1/6W R269 ORD161J-102Y CARBON RESISTOR 100K 5% 1/6W R269 ORD161J-102Y CARBON RESISTOR 100K 5% 1/6W R269 ORD161J-472Y CARBON RESISTOR 100K 5% 1/6W R269 ORD161J-472Y CARBON RESISTOR 100K 5% 1/6W R269 ORD161J-472Y CARBON RESISTOR 100K 5% 1/6W R271 ORD161J-32Y CARBON RESISTOR 1 2K 5% 1/6W R271 ORD161J-332Y CARBON RESISTOR 7.5K 5% 1/6W R273 ORD161J-332Y CARBON RESISTOR 7.5K 5% 1/6W R275 ORD161J-681Y CARBON RESISTOR 3.3K 5% 1/6W R275 ORD161J-681Y CARBON RESISTOR 3.3K 5% 1/6W R276 ORD161J-681Y CARBON RESISTOR 3.3K 5% 1/6W R277 ORD161J-681Y CARBON RESISTOR 6.8K 5% 1/6W R277 ORD161J-681Y CARBON RESISTOR 6.8K 5% 1/6W R279 ORD161J-105Y CARBON RESISTOR 100K 5% 1/6W R279 ORD161J-105Y CARBON RESISTOR 100K 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-105Y CARBON RESISTOR 1.0M 5% 1/6W R283 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R283 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R283 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R283 ORD161J-727Y CARBON RESISTOR 1.0M 5% 1/6W R283 ORD161J-727Y CARBON R	Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
R259 ORD161J-222Y CARBON RESISTOR 2.2K 5% 1/6W R263 ORD161J-102Y CARBON RESISTOR 6.8K 5% 1/6W R268 ORD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 ORD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R269 ORD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R270 ORD161J-472Y CARBON RESISTOR 1.0K 5% 1/6W R270 ORD161J-123Y CARBON RESISTOR 1.0K 5% 1/6W R271 ORD161J-123Y CARBON RESISTOR 1.0K 5% 1/6W R272 ORD161J-752Y CARBON RESISTOR 1.0K 5% 1/6W R272 ORD161J-752Y CARBON RESISTOR 7.5K 5% 1/6W R272 ORD161J-681Y CARBON RESISTOR 3.3K 5% 1/6W R273 ORD161J-681Y CARBON RESISTOR 3.5K 5% 1/6W R274 ORD161J-681Y CARBON RESISTOR 3.5K 5% 1/6W R274 ORD161J-681Y CARBON RESISTOR 6.0K 5% 1/6W R278 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R280 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R281 ORD161J-682Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0M 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0K 5% 1/6W R282 ORD161J-103Y CARBON RESISTOR 1.0K 5% 1/6W R283 ORD161J-103Y CARBON RESISTOR 1.0K 5% 1/6W R283 ORD161J-103Y CARBON RESISTOR 1.0K 5% 1/6W R283 ORD161J-272Y CARBON RESISTOR 1.0K 5% 1/6W R283 ORD161J-272Y CARBON RESISTOR 1.0K 5% 1/6W R283 ORD161J-153Y CARBON RESISTOR 1.0K 5% 1/6W R2830 ORD161J-153Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-152Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-152Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-152Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-152Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-152Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-472Y CARBON RESISTOR 1.5K 5% 1/6W R2830 ORD161J-4				1	
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R268					
R269		R263	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
R270		R268	QRD161J-104Y	CARBON RESISTOR	100K 5% 1/6W
R271 QRD161J-752Y CARBON RESISTOR 7.5K \$% 1/6W R273 QRD161J-332Y CARBON RESISTOR 7.5K \$% 1/6W R274 QRD161J-332Y CARBON RESISTOR 3.5K \$% 1/6W R275 QRD161J-681Y CARBON RESISTOR 3.5K \$% 1/6W R276 QRD161J-681Y CARBON RESISTOR 3.5K \$% 1/6W R276 QRD161J-681Y CARBON RESISTOR 68.6K \$% 1/6W R276 QRD161J-681Y CARBON RESISTOR 68.0K \$% 1/6W R278 QRD161J-105Y CARBON RESISTOR 1.0M \$% 1/6W R281 QRD161J-105Y CARBON RESISTOR 1.0M \$% 1/6W R281 QRD161J-472Y CARBON RESISTOR 1.0M \$% 1/6W R281 QRD161J-472Y CARBON RESISTOR 1.0M \$% 1/6W R282 QRD161J-472Y CARBON RESISTOR 1.0M \$% 1/6W R282 QRD161J-105Y CARBON RESISTOR 1.0M \$% 1/6W R282 QRD161J-333Y CARBON RESISTOR 3.5K \$% 1/6W R296 QRD161J-333Y CARBON RESISTOR 3.5K \$% 1/6W R297 QRD161J-833Y CARBON RESISTOR 3.5K \$% 1/6W R297 QRD161J-823Y CARBON RESISTOR 35K \$% 1/6W R297 QRD161J-103Y CARBON RESISTOR 35K \$% 1/6W R297 QRD161J-103Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-152Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-152Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-152Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-152Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-152Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-102Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-102Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-102Y CARBON RESISTOR 10K \$% 1/6W R297 QRD161J-472Y CARBON RESISTOR 10K \$% 1/6W R292 QRD161J-472Y CARBON RESISTOR 10K \$% 1/6W R292 QRD161J-472Y CARBON RESISTOR 10K \$% 1/6W R292 QRD161J-472Y CARBON RESISTOR 10K \$% 1/6W R292 QRD161J-472Y CARBON RESISTOR 10K \$% 1/6W R292		R269	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
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R297		R296	QRD161J-560Y	CARBON RESISTOR	56 5% 1/6W
R298		R297	QRD161J-333Y	CARBON RESISTOR	33K 5% 1/6W
R302 QRD161J-103Y CARBON RESISTOR 10K 5% 1/6W R303 QRD161J-272Y CARBON RESISTOR 2.7K 5% 1/6W R304 QRD161J-153Y CARBON RESISTOR 47K 5% 1/6W R305 QRD161J-153Y CARBON RESISTOR 15K 5% 1/6W R307 QRD161J-152Y CARBON RESISTOR 15K 5% 1/6W R307 QRD161J-152Y CARBON RESISTOR 10K 5% 1/6W R309 QRD161J-102Y CARBON RESISTOR 10 5% 1/6W R309 QRD161J-102Y CARBON RESISTOR 10 5% 1/6W R310 QRD161J-102Y CARBON RESISTOR 10 5% 1/6W R311 QRD161J-222Y CARBON RESISTOR 10 5% 1/6W R312 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R313 QRD161J-222Y CARBON RESISTOR 2.2K 5% 1/6W R314 QRD161J-122Y CARBON RESISTOR 2.2K 5% 1/6W R315 QRD161J-472Y CARBON RESISTOR 2.2K 5% 1/6W R317 QRD161J-472Y CARBON RESISTOR 1.8K 5% 1/6W R319 QRD161J-472Y CARBON RESISTOR 1.8K 5% 1/6W R319 QRD161J-472Y CARBON RESISTOR 1.6K 5% 1/6W R320 QRD161J-472Y CARBON RESISTOR 1.7K 5% 1/6W R321 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R353 QRD161J-272Y CARBON RESISTOR 4.7K 5% 1/6W R354 QRD161J-272Y CARBON RESISTOR 4.7K 5% 1/6W R354 QRD161J-272Y CARBON RESISTOR 4.7K 5% 1/6W R354 QRD161J-272Y CARBON RESISTOR 4.7K 5% 1/6W R404 QRD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R403 QRD161J-154Y CARBON RESISTOR 1.5K 5% 1/6W R403 QRD161J-154Y CARBON RESISTOR 1.5K 5% 1/6W R404 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R405 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R406 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R407 QRD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R407 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R407 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-222Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-272Y CARBON RESISTOR 1.5K 5% 1/6W R409 QRD161J-272Y CARBON RESISTOR 1.0K 5% 1/6W R409 QRD161J-472Y CARBON RESISTOR 1.0K	\sqcap				
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R313 QRD161J-272Y CARBON RESISTOR 2.7K 5% 1/6W R317 QRD161J-472Y CARBON RESISTOR 1.8K 5% 1/6W R317 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R319 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R320 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R321 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R322 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R351 QRD161J-272Y CARBON RESISTOR 4.7K 5% 1/6W R352 QRD161J-272Y CARBON RESISTOR 7K 5% 1/6W R353 QRD161J-154Y CARBON RESISTOR 7K 5% 1/6W R354 QRD161J-103Y CARBON RESISTOR 10 5% 1/6W R402 QRD161J-103Y CARBON RESISTOR 10 5% 1/6W R403 QRD161J-272Y CARBON RESISTOR 10 5% 1/6W R404 QRD161J-272Y CARBON RESISTOR 15K 5% 1/6W R405 QRD161J-153Y CARBON RESISTOR 15K 5% 1/6W R406 QRD161J-153Y CARBON RESISTOR 15K 5% 1/6W R407 QRD161J-152Y CARBON RESISTOR 15K 5% 1/6W R408 QRD161J-152Y CARBON RESISTOR 15K 5% 1/6W R409 QRD161J-152Y CARBON RESISTOR 15K 5% 1/6W R409 QRD161J-392Y CARBON RESISTOR 1.0K 5% 1/6W R411 QRD161J-392Y CARBON RESISTOR 1.0K 5% 1/6W R411 QRD161J-392Y CARBON RESISTOR 1.0K 5% 1/6W R411 QRD161J-101Y CARBON RESISTOR 1.0K 5% 1/6W R411 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W R414 QRD161J-122Y CARBON RESISTOR 1.0K 5% 1/6W R414 QRD161J-272Y CARBON RESISTOR 1.0K 5% 1/6W R415 QRD161J-272Y CARBON RESISTOR 1.0K 5% 1/6W R416 QRD161J-472Y CARBON RESISTOR 1.8K 5% 1/6W R417 QRD161J-472Y CARBON RESISTOR 1.7K 5% 1/6W R420 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R420 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R421 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W CARBON RESISTOR 4.7K 5% 1/6W				1	
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R404		R402	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
R405		R403	QRD161J-272Y		
R405		R404	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
R407		R405	QRD161J-153Y	CARBON RESISTOR	15K 5% 1/6W
R407		R406	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
R408			QRD161J-152Y	CARBON RESISTOR	1.5K 5% 1/6W
R409 QRD161J-101Y CARBON RESISTOR 100 5% 1/6W R410 QRD161J-392Y CARBON RESISTOR 1.0K 5% 1/6W R411 QRD161J-392Y CARBON RESISTOR 3.9K 5% 1/6W R412 QRD161J-222Y CARBON RESISTOR 2.2K 5% 1/6W R413 QRD161J-272Y CARBON RESISTOR 2.7K 5% 1/6W R414 QRD161J-182Y CARBON RESISTOR 1.8K 5% 1/6W R417 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R419 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R420 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R421 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R422 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R422 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R451 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R452 QRD161J-473Y CARBON RESISTOR 4.7K 5% 1/6W R453 QRD161J-473Y CARBON RESISTOR 4.7K 5% 1/6W R454 QRD161J-100S CARBON RESISTOR 150K 5% 1/6W R454 QRD149J-100S CARBON RESISTOR 10 5% 1/4W R701 QRZ0052-4R7 F.RESISTOR 4.7 1/0W R702 QRD161J-103Y CARBON RESISTOR 10K 5% 1/6W R703 QRD161J-103Y CARBON RESISTOR 10K 5% 1/6W R703 QRD161J-333Y CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W R703 QRD161J-103Y CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 10K 5% 1/6W CARBON RESISTOR 1.0K 5%				CARBON RESISTOR	
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R421 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R422 QRD161J-472Y CARBON RESISTOR 4.7K 5% 1/6W R451 QRD161J-272Y CARBON RESISTOR 2.7K 5% 1/6W R452 QRD161J-473Y CARBON RESISTOR 4.7K 5% 1/6W R453 QRD161J-154Y CARBON RESISTOR 15.0K 5% 1/6W R454 QRD149J-100S CARBON RESISTOR 10.5% 1/4W R701 QRZ0052-4R7 F.RESISTOR 4.7 1/0W R702 QRD161J-103Y CARBON RESISTOR 10.K 5% 1/6W R703 QRD161J-333Y CARBON RESISTOR 33K 5% 1/6W R705 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W					
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R701 QRZ0052-4R7 F.RESISTOR 4.7 1/0W R702 QRD161J-103Y CARBON RESISTOR 10K 5% 1/6W R703 QRD161J-333Y CARBON RESISTOR 33K 5% 1/6W R705 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W				r I	
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R703 QRD161J-333Y CARBON RESISTOR 33K 5% 1/6W R705 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W		R701	1		
R705 QRD161J-102Y CARBON RESISTOR 1.0K 5% 1/6W		R702			
i		R703	QRD161J-333Y		
	1	R705	QRD161J-102Y		
		R706	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W

				
₩ K	EF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
1	R707	QRD161J-331Y	CARBON RESISTOE	330 5% 1/6W
	R708	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R709	QRD161J-222Y	CARBON RESISTOR	
	R711	QRZ0052-4R7	F.RESISTOR	4.7 1/OW
	R713	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R714	QRD161J-102Y	CARBON RESISTOR	
		QRD161J-103Y	CARBON RESISTOR	
		QRD161J-472Y	CARBON RESISTOR	
- 1		QRD161J-472Y	CARBON RESISTOR	
		QRD161J-473Y	CARBON RESISTOR	
1		QRD161J-472Y	CARBON RESISTOR	
- 1		QRD161J-822Y	CARBON RESISTOR CARBON RESISTOR	
1			CARBON RESISTOR	
			CARBON RESISTOR	
	R726 R727	QRD161J-822Y QRD161J-472Y	CARBON RESISTOR	
1		QRD161J-471Y	CARBON RESISTOR	
- 1		QRD161J-472Y	CARBON RESISTOR	
- 1			CARBON RESISTOR	
1		QRD161J-472Y	CARBON RESISTOR	
		QRD161J-471Y	CARBON RESISTOR	The state of the s
- 1			CARBON RESISTOR	
1			CARBON RESISTOR	
- 1			CARBON RESISTOR	
1	R736	QRD161J-822Y	CARBON RESISTOR	
	R737	QRD161J-472Y	CARBON RESISTOR	
4			CARBON RESISTOR	
1		QRD161J-822Y	CARBON RESISTOR	
1		QRD161J-472Y	CARBON RESISTOR	
- 1	R741	QRD161J-471Y	CARBON RESISTOR	
4	R744	QRD161J-222Y	CARBON RESISTOR	
- 1		QRD161J-223Y	CARBON RESISTOR CARBON RESISTOR	
		QRD161J-104Y QRD161J-473Y	CARBON RESISTOR	
		QRD161J-4731	CARBON RESISTOR	
		QRD161J-472Y	CARBON RESISTOR	
		QRD161J-102Y	CARBON RESISTOR	
1		QRD161J-223Y	CARBON RESISTOR	
1		QRD161J-223Y	CARBON RESISTOR	
		QRD161J-104Y	CARBON RESISTOR	
	R912	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
	R913	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
	R914	QRD161J-104Y	CARBON RESISTOR	
		QRD161J-223Y	CARBON RESISTOR	
4 -	R922	QRD161J-223Y	CARBON RESISTOR	
	R923	QRD161J-223Y	CARBON RESISTOR	
1	R924	(CARBON RESISTOR	
- 1			CARBON RESISTOR CARBON RESISTOR	
	R926	QRD161J-103Y	CARBON RESISTOR	
		QRD161J-223Y QRD161J-223Y	CARBON RESISTOR	
1			CARBON RESISTOR	
			CARBON RESISTOR	
ł		QRD161J-223Y	CARBON RESISTOR	
		QRD161J-103Y	CARBON RESISTOR	
	R937	QRD161J-333Y	CARBON RESISTOR	
	R938	QRD161J-224Y	CARBON RESISTOR	
	R939	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
-	R940	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
.	R948	QRD161J-472Y	CARBON RESISTOR	
	R949	QRD161J-242Y	C RESISTOR	2.4K 5% 1/6W
-	R953	QRD161J-392Y	CARBON RESISTOR	
į	R954	QRD161J-222Y	CARBON RESISTOR	
	R955	QRD161J-103Y	CARBON RESISTOR	
.	R956	QRD161J-821Y	CARBON RESISTOR	
	R957	QRD161J-103Y	CARBON RESISTOR	
1	R958	QRD161J-472Y	CARBON RESISTOR	
	R959	QRD161J-332Y	CARBON RESISTOR	
	R961	QRD161J-333Y	CARBON RESISTOR	
	R962	QRD161J-333Y	CARBON RESISTOR	
1	R963	QRD149J-4R7S	CARBON RESISTOR	1
	R964 R965	QRD149J-8R2S QRD161J-332Y	CARBON RESISTOR	
	R966	QRD161J-153Y	CARBON RESISTOR	1
	R967	QRD161J-272Y	CARBON RESISTOR	
1	· · · · · · · · · · · · · · · · · · ·			

Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	R968	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R971	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
	R972	QRD161J-104Y	CARBON RESISTOR	100K 5% 1/6W
1	R973	QRD149J-471S	CARBON RESISTOR	470 5% 1/4W
	R985	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
1	R986	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R991	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
П	R992	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	R993	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
П	R994	QRD161J-822Y	CARBON RESISTOR	8.2K 5% 1/6W
	R995	QRD161J-822Y	CARBON RESISTOR	8.2K 5% 1/6W
	R996	QRD161J-561Y	CARBON RESISTOR	560 5% 1/6W
	R997	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R998	QRD161J-273Y	CARBON RESISTOR	27K 5% 1/6W
	S901	QSTT362-V01	PUSH SW	
	TP1	VMZ0064-001	TEST POINT	**
	VR101	QVPC604-101	V.RESISTOR	
	VR201	QVPC604-101	V.RESISTOR	
	VR301	QVPA601-473	V.RESISTOR	
	VR302	QVPA601-103	V RESISTOR	
	VR401	QVPA601-473	V.RESISTOR	
	VR402	QVPA601-103	V RESISTOR	
	VR902	VCV1001-060	V RESISTOR	
	VR903	QVPA601-202	V.RESISTOR	į
	VR905	QVPA601-502	V.RESISTOR	

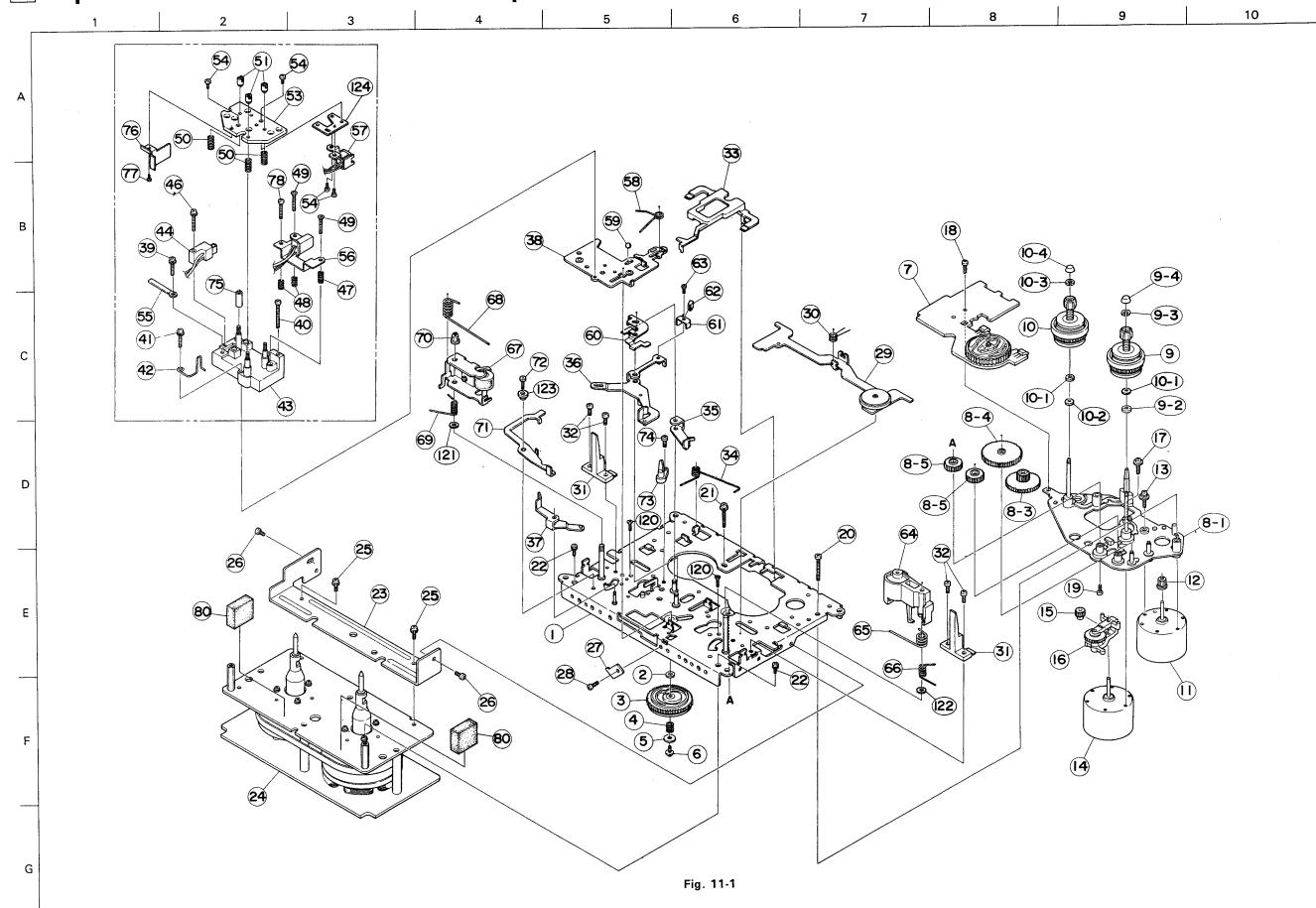
-				
Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	CA991	VCE0025-107	E CAP(TAPING)	
	CA992	VCE0025-107	E CAP(TAPING)	
- 1	CA993	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
ŀ	CF501	FCR6.OMCF	CERA LOCK	1010m / 1001 0% 501
	C502	QEK61CM-107ZN	E.CAPACITOR	100MF 20% 16V
		QEK61CM-106ZM	E CAPACITOR	100MF 20% 16V
- 1	C503	1	SI DIODE	10MF 20% 10V
- 1	D504	HSS104TJ	SI DIODE	
- 1	D506	HSS104TJ	SI DIODE	
	D507	HSS104TJ	SI DIODE	
	D508	HSS104TJ	SI DIODE	
	D509	HSS104TJ		
- 1	D551	HSS104TJ	SI DIODE	
-	D552	HSS104TJ	SI DIODE	
-	D553	HSS104TJ	SI DIODE	
]	D554	HSS104TJ	SI DIODE	
-	D569	HSS104TJ	SI DIODE	
ļ	D996	SLV-31VC50F158	L.E.D	
	D997	SLV-31VC50F158	L.E.D	
	D998	SLV-31MC50F158	LED (J.K)	
_	FL701	BG-502GK	FL TUBE	
	10501	MB88515B-673T	IC	
	10502	UPD4069UBC	I C	
	10990	VC4580L	I C	
	J990	QMS6302-119G	JACK	
	Q505	2SC945L(P,K)-T	TRANSISTOR	
	Q506	UN4211TA	TRANSISTOR	
-	Q507	UN4211TA	TRANSISTOR	
	Q508	UN4211TA	TRANSISTOR	
	Q509	UN4211TA	TRANSISTOR	
- 1	Q727	2\$C3113(B)E4	TRANSISTOR	
	RA391	QRD161J-273Y	CARBON RESISTOR	27K 5% 1/6W
-	RA392	QRD161J-820Y	CARBON RESISTOR	82 5% 1/6W
- 1	RA393	QRD161J-154Y	CARBON RESISTOR	150K 5% 1/6W
ı	RA394	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	RA395	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
~	RA491	QRD161J-273Y	CARBON RESISTOR	27K 5% 1/6W
	RA492	QRD161J-820Y	CARBON RESISTOR	82 5% 1/6W
	RA493	QRD161J-154Y	CARBON RESISTOR	150K 5% 1/6W
Ì	RA494	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
-	RA495	QRD161J-472Y	CARBON RESISTOR	
	RM901	SBX1483-52	RM RECIVER	
	RN501	QRB085J-473	NETWORK RESIST	47K 5% 1/8W
	RN502	QRB085J-473	NETWORK RESIST	47K 5% 1/8W
	RN503	QRB065J-223	NETWORK RESIST	22K 5% 1/6W
	RN504	QRB055J-473	NETWORK RESIST	47K 5% 1/5W
	RN505	QRB055J-223	NETWORK RESIST	22K 5% 1/5W
	RN506	QRB045J-682	NETWORKRESISTOR	
	R301	QRD161J-682Y	CARBON RESISTOR	
	R401	QRD161J-682Y	CARBON RESISTOR	1
	1	•		
L.,	R502	QRD161J-431Y	C RESISTOR	430 5% 1/6W

Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
П	R523	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
	R541	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R542	QRD161J-102Y	CARBON RESISTOR	
	R549	QRD161J-681Y	CARBON RESISTOR	680 5% 1/6W
	R550	QRD161J-821Y	CARBON RESISTOR	820 5% 1/6W
	R551	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R552	QRD161J-122Y	CARBON RESISTOR	1.2K 5% 1/6W
П	R553	QRD161J-182Y	CARBON RESISTOR	1.8K 5% 1/6W
	R554	QRD161J-752Y	CARBON RESISTOR	7.5K 5% 1/6W
	R557	QRD161J-182Y	CARBON RESISTOR	1.8K 5% 1/6W
	R558	QRD161J-272Y	CARBON RESISTOR	
	R559	QRD161J-222Y	CARBON RESISTOR	
	R561	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R562	QRD161J-122Y	CARBON RESISTOR	1.2K 5% 1/6W
	R563	QRD161J-182Y	CARBON RESISTOR	1.8K 5% 1/6W
	R564	QRD161J-272Y	CARBON RESISTOR	2.7K 5% 1/6W
	R565	QRD161J-822Y	CARBON RESISTOR	8.2K 5% 1/6W
1	R566	QRD161J-472Y	CARBON RESISTOR	4.7K 5% 1/6W
	R567	QRD161J-273Y	CARBON RESISTOR	27K 5% 1/6W
	R570	QRD161J-471Y	CARBON RESISTOR	470 5% 1/6W
	R595	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R596	QRD161J-100Y	CARBON RESISTOR	10 5% 1/6W
	R742	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R743	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
	SA902	QSTT461-V02	PUSH SW	·
	\$501	QSP1A11-V01	TACT SWITCH	
	\$502	QSP1A11-V01	TACT SWITCH	
	\$503	QSP1A11-V01	TACT SWITCH	
	\$504	QSP1A11-V01	TACT SWITCH	
	\$505	QSP1A11-V01	TACT SWITCH	
	\$506	QSP1A11-V01	TACT SWITCH	
	S507	QSP1A11-V01	TACT SWITCH	
	\$509	QSP1A11-V01	TACT SWITCH	
	\$510	QSP1A11-V01	TACT SWITCH	
	S511	QSP1A11-V01	TACT SWITCH	
1	\$512	QSP1A11-V01	TACT SWITCH	
	S513	QSP1A11-V01	TACT SWITCH	
	S514	QSS7A23-V05	SLIDE SWITCH	
	VR906	QVDB26A-V02	V.RESISTOR	
	VR911	QVAA12W-V01	V RESISTER	
	VR912	QVAA16B-V04	V RESISTER	
	VR995	QVAB26A-V01	V.RESISTOR	
			1	

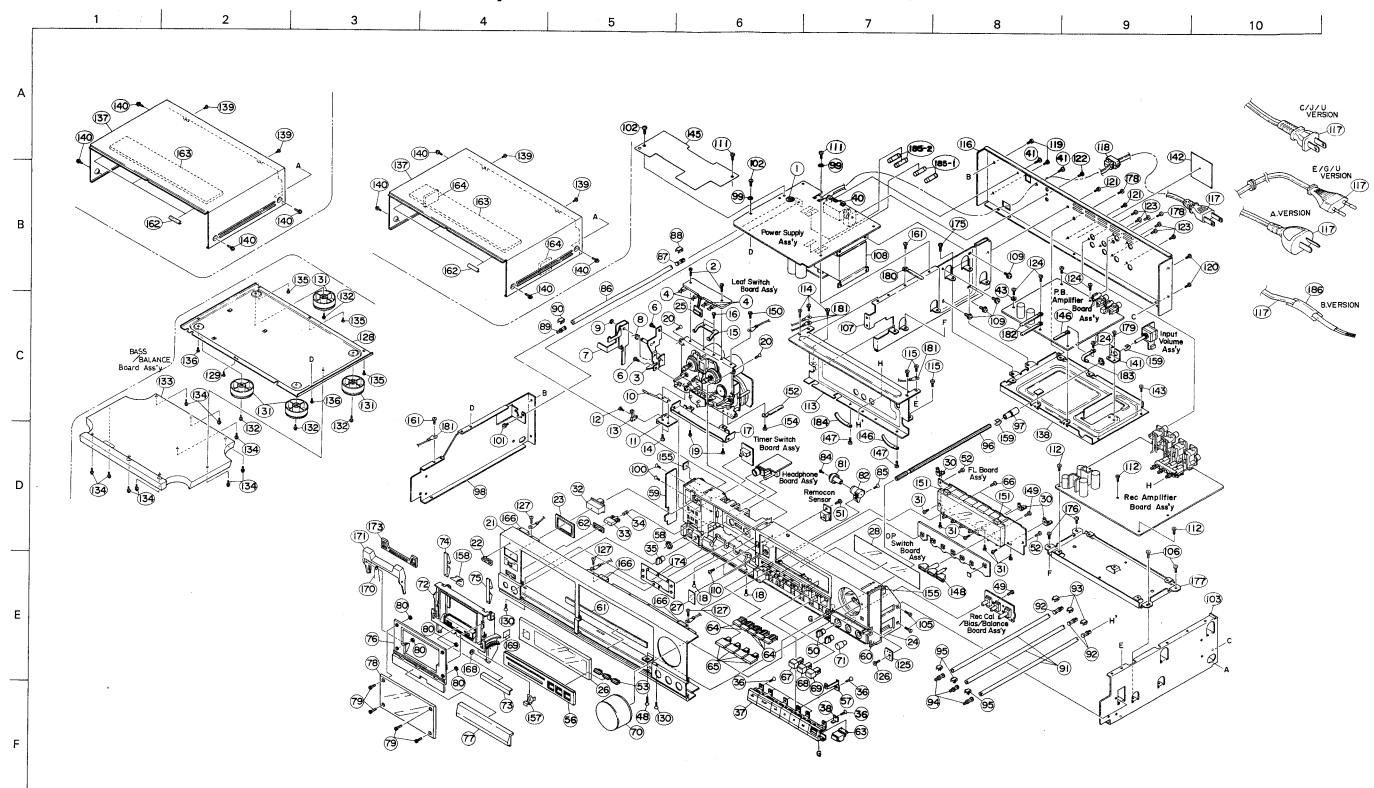
Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	C501	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
	C531	QETC1HM-224ZN	E.CAPACITOR	.22MF 20% 50V
Δ	C710	QFZ9010-103	M.CAPACITOR	.010MF
	C711	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
l	C712	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
	C713	QETB1EM-688N	E CAPACITOR	6800MF 20% 25V
	C714	QETB1EM-688N	E CAPACITOR	6800MF 20% 25V
	C721	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
	C722	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
	C723	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
	C724	QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
ĺ	C747	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
	C748	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C749	QCF31HP-473Z	C.CAPACITOR	.047MF +100:-0% 50V
	C750	QCS31HJ-271Z	C.CAPACITOR	270PF 5% 50V
	C751	QETB1EM-477N	E.CAPACITOR	470MF 20% 25V
	C752	QETB1VM-477N	E.CAPACITOR	470MF 20% 35V
	C753	QETB1EM-338N	E.CAPACITOR	3300MF 20% 25V
1	C754	QETB1AM-109N	E.CAPACITOR	10000MF 20% 10V
l	C755	QETC1AM-107ZM	E.CAPACITOR	100MF 20% 10V
	C756	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C757	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C758	QETC1EM-107ZM	E CAPACITOR	100MF 20% 25V
ŀ	C759	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C760	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V

7 1	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
T	C761	QETC1EM-106ZM	E.CAPACITOR	10MF 20% 25V
-	C762	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
	C763	QFV71HJ-103ZM	TF.CAPACITOR	.010MF 5% 50V
1	C764	QETC1HM-106ZM	E.CAPACITOR	10MF 20% 50V
1		HSS104TJ	SI DIODE	
		HSS104TJ	SI DIODE	
		HSS104TJ	SI DIODE	
		HSS104TJ	SI DIODE	
1		HSS104TJ	SI DIODE	
1	D515	11E1-TB2	SI.DIODE	
		HSS104TJ	SI DIODE	
		HSS104TJ	SI DIODE	
		HSS104TJ	SI DIODE	
ŀ	D711	11E1-TB2	SI.DIODE	
·	D712	11E1-TB2	SI.DIODE	
	D713	11E1-TB2	SI.DIODE	
	D714	11E1-TB2	SI.DIODE	
	D751	11E1-TB2	SI.DIODE	
	D752	11E1-TB2	SI.DIODE	
	D755	11E1-TB2	SI.DIODE	
	D756	11E1-TB2	SI.DIODE	-
	D757	11E1-TB2	SI.DIODE	
	D758	MTZ5.6CT-77	Z.DIODE	
		MTZ24CT-77	ZENER DIODE	
			Z.DIODE	
1		MTZ5.6CT-77		
		BA6208A	I C	
		BA6208A	I C	
		UPC78M10H	I C	
		UPC78M12H	I.C.	
		QMS3533-001	JACK	
	Q501	28C945L(P,K)-T	TRANSISTOR	
	Q502	2SC945L(P,K)-T	TRANSISTOR	
	Q503	2SC945L(P,K)-T	TRANSISTOR	
Í	Q751	2SC2001(L,K)-T	TRANSISTOR	
	Q752	2\$C2001(L,K)-T	TRANSISTOR	
	Q753	2SB605(LA,KA)	TRANSISTOR	
	Q761		TRANSISTOR	
		2SA733A(P,K)-T	TRANSISTOR	
	Q802	2SD1302(S,T)TA	TR.I/M	
	0803	2SD1302(S,T)TA	TR.I/M	
	· · · · · · · · · · · · · · · · · · ·	QRD161J-334Y		330K 5% 1/6W
			1	
		QRD161J-473Y	1	
		QRD161J-151Y	i i	150 5% 1/6W
		QRD161J-471Y	CARBON RESISTOR	
		QRD161J-102Y	CARBON RESISTOR	
		QRD161J-471Y	CARBON RESISTOR	
	R509	QRD161J-473Y	CARBON RESISTOR	
	R510	QRD161J-222Y	CARBON RESISTOR	
	R512	QRD161J~102Y	CARBON RESISTOR	1.0K 5% 1/6W
1		QRD161J-471Y	CARBON RESISTOR	470 5% 1/6W
1		QRD161J-102Y	CARBON RESISTOR	
i		QRD161J-102Y	CARBON RESISTOR	
		QRD161J-103Y	CARBON RESISTOR	
		QRD161J-103Y	CARBON RESISTOR	
		QRD161J-473Y	CARBON RESISTOR	
		QRD161J-473Y	CARBON RESISTOR	
	R534	'		
		QRD149J-6R8S	CARBON RESISTOR	
	R752	QRD161J-471Y	CARBON RESISTOR	
1	R753	QRD161J-221Y	CARBON RESISTOR	
	R754	QRD161J-471Y	CARBON RESISTOR	
	R755	QRD161J-102Y	CARBON RESISTOR	
ĺ	R756	QRZ0052-4R7	F.RESISTOR	4.7 1/OW
	R761	QRD161J-331Y	CARBON RESISTOR	
	R762	QRD161J-103Y	CARBON RESISTOR	
1	R763	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
1	R801	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	R802	QRD161J-223Y	CARBON RESISTOR	
	R803	QRD161J-223Y	CARBON RESISTOR	
	R804	QRD161J~472Y	CARBON RESISTOR	
	R805	QRD161J-472Y	CARBON RESISTOR	
		QRD161J-223Y	CARBON RESISTOR	
	R806		l .	
	R807	QRD161J-222Y	CARBON RESISTOR	2.2K 5% 1/6W
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11 Exploded View of Mechanism Component



12 Exploded View of Enclosure Component



13 Mechanism/Enclosure Component Parts List

■ Mechanism Component Parts List

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
_	1	VKL2449-00H	CHAS.BASE ASS'Y		1
	2	VKZ4003-010	FELT	REF.NO.1+REF.NO.3	1
	3	VKS2122-001	P.ROLLER CAM		1
	4	VKW4760-001	C.SPRING	REF.NO.3	1
	5	VKZ4284-002	WASHER	REF.NO.3,4	1 1
-	6	VKZ4340-002	SCREW	REF.NO.5	1
	7	VKZ3136-00D	CAM SWITCH ASSY		1 1
1	8-1	VKL2303-003	DISK BASE	J 2 4	1
	8-3	VKR3001-001	GEAR(2)		1
	8-4	VKR3001-002	GEAR(2)		1 1
-	0 4	VKR3001-002T	GEAR 2		1
		VKR3001-002T	GEAR 2		1
		VKR3001-002T	GEAR 2		1
		VKR3001-002T	GEAR 2		1 1
		VKR3001-002T	GEAR 2		1
		VKR3001-002T	GEAR 2		1
		VKR3001-002T	GEAR 2		1
	8-5	VKR3001-0021	GEAR(1)		2
			T-UP REEL ASY.		1
	9 9-2	VKR4565-00B VKZ4003-010	FELT	REF.NO.9	1 1
	9-2	VKR4170-001	RING	INC. INC. 7	1
		VKS4170-001	REEL STOPPER		1
	9-4		S.REEL ASS'Y		1 1
	10	VKR4566-00A	1		2
	10-1	VKZ4041-001	FELT	REF.NO.10	1
	10-2	Q03093-834	WASHER	REF.NO.10	1 1
	10-3	VKR4170-001	RING		1 1
	10-4	VKS4131-001	REEL STOPPER	FOR CAM MOTOR	1
Δ		MMN-6F2RA8Z	DC MOTOR	REF.NO.11	1
	12	VKR4326-001	MOTOR GEAR	1	1
	13	DPSP2608Z	SCREW	REF.NO.11	1 1
⚠	14	MMN-6F2RA8Z	DC MOTOR	FOR REEL	1
	15	VKR3000-003	GEAR(1)	REF.NO.14,16	1
	16	VKS4503-00D	F/R ARM ASS'Y	REF.NO.14	1
	17	SWSP2608Z	SCREW	REF.NO.14	1
	18	SDST2604Z	SCREW	REF.NO.7,8-1	1
	19	SDST2608Z	SCREW	REF.NO.8-1,8-5	
	20	SPSP2615Z	SCREW	FOR CAM MOTOR	1
	21	LPSP2614Z	SCREW	FOR REEL MOTOR	1 2
	22	LPSP2606Z	SCREW	FOR REF.NO1+DD MOTOR	
_	23	VKL6562-001	MOTOR BRACKET		1
	24	SS11BA	D.D.MOTOR	DEE NO 07	1
	25	LPSP2606Z	SCREW	REF.NO.23	2
	26	SDST2605Z	SCREW	REF.NO.23/CHASSIS	2
	27	VKL5398-001	BRACKET	CHASSIS BASE	1
	28	SSST2604Z	SCREW	REF.NO.27	1
	29	VKL3411-00C	T-UP IDLER ASSY		1
	30	VKW3006-099	TORSION SPRING	REF.NO.29	1
	31	VKS4901-001	CASSETTE GUIDE	J 2 4	2
	32	SDST2605Z	SCREW	REF.NO.31	4
L	33	VKS3162-004	BRAKE BAR	J 2 4	1
[34	VKW4380-001	TORSION SPRING	REF.NO.33/CHASSIS	1
	35	VKL5316-00G	H.BASE ARM ASY	REF.NO.36,60/CHASSIS	1
	36	VKL3879-00A	P.R.LEVER(1)		1
	37	VKL6190-00C	P.R.LEVER(2)		1
	38	VKM3192-001	HEAD BASE		1

A RE	F. PART	S NO.	PARTS NAME	REMARKS	QTY
3	9 LPSP201	ON S	CREW	REF.NO.43	1
4	O SPSP201	6N S	CREW	REF.NO.43	1
4	l l		CREW	REF.NO.42,43	1
4		-001 W	IRE HOLDER	REF.NO.41,43	1
4		1	/R H.BASE ASY.		1
4			RASE HEAD		1
4	i i		CREW	ERASE HEAD	1
4			PRING	REC.HEAD	1
4			PRING	REC.HEAD	
4			PECIAL SCREW	REC.HEAD	2
5			PRING	PB HEAD	2 2 3
5	1		DJUST SCREW	REF.NO.53	3
5			.B. HEAD BASE		1
5	1		.SCREW	REF.NO.53	4
5		i	IRE HOLDER	REF.NO.43	1
5			EC HEAD ASS'Y	RET : NO : 43	1
5			.B. HEAD ASS'Y		1
5	i		ORSION SPRING	REF.NO.38	1
5	1		TEEL BALL	REF.NO.38	1
1		-	PRING PLATE	REF.NO.36	1
6			.T.LEVER	REF.NO.36	1
6	l l				1
6	i		.T.RUBBER	REF.NO.61	1
6			CREW	REF.NO.61	1
6	I		.R.ARM ASY.(R)	RIGHT	1
6			ORSION SPRING	REF.NO.64	1
6	I	1	ORSION SPRING	REF.NO.64	1
6	I		.R.ARM ASY(L)	LEFT	1
6			ORSION SPRING	REF.NO.67	1
6		1	ORSION SPRING	REF.NO.67	1
7			DJUST SCREW	REF.NO.67	1
7	1		JECT SAFETY		1
7	1	1	CREW	·	1
7	1	-	UID POST		1
7	i	1	CREW	REF.NO.73	1
7	5 QXTS400	-010 S	HURINK TUBE	REF.NO.43	1
7	6 VKL6581	-001 S	HÍELD PLATE	REF.NO.53	1
7	7 SPSK202	1	INI SCREW	REF.NO.76	1
7	3 VKZ4464	-00B S	PECIAL /SCREW	REC.HEAD	1
8	SOSHSYV C	-013 S	PACER	DD MOTOR	2
12	SSSP260	8 Z S	CREW	CHASSIS BASE/DD	2
12	1 WNS3000	N W	ASHER	REF.NO.67	1
12	2 WNS3000	N W	ASHER	REF.NO.64,65,66	1
12	3 VKH4418	-002 F	LANGE COLLAR		1
12	4 VKL6422	-001 H	EAD BASE		1
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■ Enclosure Component Parts List

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
		ZCTDV1010J-FBK ZCTDV1010K-FBK ZCTDV1010K-CH ZCTDV1010K-CLBK	FRONT PANEL ASS'Y FRONT PANEL ASS'Y CASSETTE HOLDER ASS'Y CASSETTE LID ASS'Y	TD-V1010C/J OTHER AREA	1 1 1 1
	1	QSP1106-004	PUSH SWITCH	TD-V1010A/C/E/G/J	1
Δ Δ		QSP1106-004BS	PUSH SWITCH	TD-V1010B	1
ì		VND4113-001	G.CAUTION CARD	TD-V1010J	1
l	2	VKZ4345-004	SPECIAL SCREW	MECHA+L.SW.PWB	2
	3 4	VKL6200-00A VSH1140-002	EJECT BKT ASS'Y LEAF SWITCH		1 4
+	6	SDST2606Z	SCREW	MECHA+EJ.BKT	2
	7	VKL3908-001	EJECT LEVER		1
	8	VKW4688-002	TORSION SPRING		1
	9 10	REE2500X VKY4497-003	E RING HOLDER SPRING		1 1
\dagger	11	VKL6345-002	LEAF SW BRACKET		1 1
	12	SDST2005Z	SCREW	L.SW.BKT+LEAF SW	1
-	13	VSH1155-001	LEAF SWITCH	4504444	1
	14 15	SDST2604Z VKY4279-001	SCREW PACK SPRING	MECHA+H.SP	2
+	16	SDST2604Z	SCREW	MECHA+P.SP	2
	17	VKL3883-001	MECHA.BRACKET		1
	18	SSST3006Z	SCREW	MECHA BKT+F.PANEL	2
	19 20	SDST2604Z SSSF3010Z	SCREW SCREW	MECHA+M.BKT MECHA+F.PANEL	2
\dashv	21	VJC1754-011	FRONT PLATE	MECHATFIFANEL	1
	2.2	PQ42376-001	JVC MARK		1
	23	E73878-002	P.BUTTON ESCUTC		1
	24	VJC1755-005 VJC1755-006	FRONT PANEL	TD-V1010A/B/C/E/G TD-V1010J	1 1
\dagger	25	LD-702YU	L.E.D	18-010103	1
	26	VJK3445-003	FINDER	ļ	1
	27	VJD4025-001	FILTER	REMOCON UNIT	1
	28 30	VJD4615-021 VYH4638-001	FILTER BRACKET		1 3
+	31	SDSP3004Z	SCREW		6
	32	E73877-002	PUSH BUTTON	POWER	1
	33	VXP4349-00E	PUSH BUTTON ASS	EJECT	1
	34 35	VKW3001-063 E74179-002	COMP.SPRING KNOB	PUSH BUTTON OUTPUT	1
+	36	SDSF2608Z	SCREW	M.BUTTON+F.PANEL	5
1		SDSF2608Z	SCREW		1
	37	VXP3274-004	MECHA BUTTON		1
١	38 40	VKL6628-001 VKS5011-001	BUTTON HOLDER VOLTAGE CONTACT	FOR A/B/E/G V.SEL	1
+	41	SDSF3008CC	SCREW	FOR A/B/E/G R.P+V.C	2
	43	WNS3000N	WASHER	EARTH SCREW	1
	48	SSSF3010Z	SCREW	F.PLATE+M.BUTTON	1
	49 50	SDSF3010Z E74179-002	SCREW KNOB	VOL.PWB+F.PANEL REC CAL&BIAS	1 2
+	51	SDSF3010Z	SCREW	REMOCON PWB+F.PANEL	1
	52	SDSF3010Z	SCREW	FL PWB+FRONT PANEL	2
	53	VJD5174-001	LED LENS		1
l	56 57	VJD3780-00F VKY4550-003	C.PANEL ASS'Y EARTH CONTACT	M.BUTTON+C.PANEL	1 1
\dashv	58	VKZ4150-001	SPECIAL NUT	H.P.JACK	$\frac{1}{1}$
	59	VJD5181-004	SIDE PLATE(L)	F.PANEL LEFT	1
	60	VJD5181-003	SIDE PLATE(R)	F.PANEL RIGHT	1
	61 62	VYSH102-053 VJD5173-001	SPACER EJECT ESCUTCHEO	FRONT PLATE	1
+	63	VXP4812-002	PUSH BUTTON	MONITOR	1 1
	64	VXP4575-002	PUSH BUTTON	RESET	5
	65	E71268-003	PUSH KNOB	NR SELECT	4
	66	SSSF3010Z	SCREW	F.PANEL+NR SW.	2

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	68	VXP4307-012	PUSH BUTTON	DIRECT	1
	69	VXP4307-013	PUSH BUTTON	LINE	1 1
	70	E302479-005	VOLUME KNOB	INPUT BALANCE	1
	71	VXL4166-005 VJT2153-003	KNOB CASSETTE DOOR	BALANCE	1
╀	72 73	VJD5081-007	HOLDER PLATE		- 1
	74	VKY4382-007	CASSETTE SPRING	CASSETTE DOOR	1
1	75	VKY4382-008	CASSETTE SPRING	CASSETTE DOOR	1
	76	VJT3265-002	CASSETTE LID	CASSETTE DOOR	1
	77	VJT3270-005	LID PLATE		1
╁	78	VJT3266-001	CASSETTE FINDER		1
	79	BYS3006M	S.BOLT	C.FINDER+C.LID	4
ĺ	80	NTB3000	NUT	C.FINDER+C.LID	4
	81	VYH4769-002	DAMP HOLDER		1 1
	82	VYH5033-002	GEAR		1
$^{+}$	84	SBSB2004Z	SCREW	GEAR	1
١	85	SDSF3008Z	SCREW	D.HOLDER+F.PANEL	1
	86	VKS4989-002	REMOTE BAR	POWER	1
	87	VKS4990-001	SWITCH CONTACT	POWER	1
	88	VKL6207-001	STOPPER	SW. CONTACT	1
\top	89	VKS4991-001	BUTTON CONTACT	POWER	1
	90	VKL6207-001	STOPPER	B.CONTACT	1
	91	VKS4989-002	REMOTE BAR	DIRECT&LINE	3
	92	VKS4990-001	SWITCH CONTACT	DIRECT&LINE	3
	93	VKL6207-001	STOPPER	SW.CONTACT	3
Ť	94	VKS4991-001	BUTTON CONTACT	DIRECT&LINE	3
	95	VKL6207-001	STOPPER	BUTTON CONTACT	3
	96	VKH5027-003	VOLUME SHAFT	INPUT	1
1	97	VKS4992-003	VOLUME CONTACT	INPUT	' 1
	98	VKL3884-001	SIDE CHASSIS(L)		1
T	99	WNS3000N	WASHER	TD-V1010G	1
ı		WNS3000N	WASHER	TD-V1010G	1
ı	100	SSST3006Z	SCREW	F.P.+S.CHAS(L)	2
	101	LPSP3006Z	SCREW	P.SW+S.CHAS(L)	1
	102	SDST3006CC	SCREW	PROTECTOR+S.CHAS.	1
T		SDST3006CC	SCREW	S.CHAS(L)+M.PWB	1
	103	VKL3891-003	SIDE CHASSIS(R)		1
	105	SSST3006Z	SCREW	F.P.+S.CHAS(R)	2
	106	SDST3006CC	SCREW	AMP CHAS(B)+S.CHAS	2
†	107	VKL3892-003	CENTER CHASSIS		1
Δ	108	VTP60C9-011B	POWER TRANS	TD-V1010A/C/E/G/J	1
2		VTP60C9-011BBS	POWER TRANS	TD-V1010B	1
7	109	SDSB4010R	SCREW	C.CHAS+TRANS.	4
1	110	SSST3008Z	SCREW	C.CHAS+F.PANEL	2
\top	111	SDST3006CC	SCREW	C.CHAS+M.PWB	2
1	112	SDST3006CC	SCREW	A.CHAS.+REC AMP	3
	113	VKL3932-001	SHIELD PLATE		1
1	114	SDST3006Z	SCREW	C.CHAS+S.PLATE	3
╝	115	SDST3006Z	SCREW	S.CHAS+S.PLATE	
T	116	VJC2301-011	REAR PANEL	TD-V1010C/J	1
		VJC2301-012	REAR PANEL	TD-V1010A/B/E/G	1
12	117	QMP1900-200	POWER CORD	TD-V1010C/J	1
Ŷ		QMP2560-200	POWER CORD	TD-V1010A	1 1
2		QMP3900-200	POWER CORD	TD-V1010E/G	
7		QMP9017-008BS	POWER CORD	TD-V1010B	
Δ	118	QHS3771-108	CORD STOPPER	TD-V1010A/C/E/G/J	:
2		QHS3771-108BS	CORD STOPPER	TD-V1010B	
	119	SDST3006CC	SCREW	S.CHAS(L)+R.PANEL	
1	120	SDST3006CC	SCREW	S.CHAS(R)+R.PANEL	
	121	SDST3006CC	SCREW	C.CHAS+R.PANEL	
	122	SDSF3010CC	TAP SCREW	DCS+R.PANEL	:
	123	SDSF3010CC	TAP SCREW	PIN JACK+R.PANEL	4
		SDSF3010CC	TAP SCREW	PIN JACK+R.PANEL	
\perp	124	SDST3006CC	SCREW	AMP CHAS+P.B	
T	125	VYH6841-001	STOPPER	VOLUME SHAFT	
	126	SDSF3008Z	SCREW	STOPPER+F.PANEL	
- 1	127	SSSF3010Z	SCREW	F.PLATE+F.PANEL	:
- 1		VJC1547-007	BOTTOM COVER	1	
	128	1 42 6 7 2 4 1 - 0 0 1	100	1	

7	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	130	SSSF3010Z	SCREW	F.PLATE+F.PANEL	2
	131	VJF4013-00D	FOOT ASS'Y		4
	132	GBST3008Z	TH.TAP.SCREW	FOOT+BOTTOM	4
	133	VJD1130-005 GBST3016Z	SOLID BASE	SOLID BASE+BOT	1 9
+	135	SDST3006Z	SCREW	SOLID BASE+BOT. BOTTOM+R.PANEL	3
	136	SDST3006Z	SCREW	BOTTOM+S.CHAS.	2
	137	VJC1622-004	TOP COVER	Bollants: clias:	1
	138	VKM3190-001	AMP CHASSIS (A)	PLAY PWB	1
ı	139	SDST3006CC	SCREW	T.COVER+R.PANEL	2
+	140	VKZ3001-004	SPECIAL SCREW	T.COVER+S.CHAS.	2
		VKZ3001-004	SPECIAL SCREW	T.COVER+S CHAS.	2
1	141	VKL6556-001	SHIELD BRACKET	AMP CHASSIS(A)	1
7	142	VYN2249-002PA	NAME PLATE	TD-V1010A/B/G	1
<u>1</u>		VYN2249-004PA	NAME PLATE	TD-V1010C	1
4		VYN2249-004PK	NAME PLATE	TD-V1010C	1
7		VYN2249-005PA	NAME PLATE	TD-V1010E	1
7		VYN2249-006PA	NAME PLATE	TD-V1010J	1
	143	SDST3006CC	SCREW	A.CHAS.(A)+S.CHAS	2
\perp	145	VYTS468-001	PROTECTOR	POWER PWB	1
	146	VKZ4001-007	WIRE CLAMP		1
		VKZ4001-007	WIRE CLAMP		1
		VKZ4001-007	WIRE CLAMP	FW103,FW104	1
		VKZ4001-007	WIRE CLAMP	CAL, BAL	1
+	147	SDST3006Z	SCREW		1
		SDST3006Z	SCREW		1
		SDST3006Z	SCREW	WIRE HOLDER	1
	148	VKS5179-001	REFLECTOR		1
	149	SDSF3008Z	SCREW		1
1	150	SDST2606Z	SCREW	MECHA	1
1	151	VYSH105-034	SPACER	FL TUBE	2
	152	VKZ4001-007	WIRE CLAMP	MECHA	1
	154	SDST3006Z	SCREW	WIRE HOLDER	1
	155	VYSR101-015	SPACER		2
	157	VKY4535-001	EARTH PLATE	CASSETTE DOOR	1
İ	158	VKY4533-001	CASSETTE SPRING	CASSETTE DOOR	1
	159	VYSA1R2-008	SPACER	VOLUME SHAFT	1
l		VYSA1R2-008	SPACER		1
4-	161	SDST3006Z	SCREW		
		SDST3006Z	SCREW	CENTER CHASSIS	1
1	162	VYSA1R8-027	SPACER	TOP COVER	3
	163	VYTR435-001	SPACER	TOP COVER	1 1
	166	VYSH104-022	SPACER	FRONT PLATE	3
+	168 169	Q03093-819 VYSA1R4-058	WASHER SPACER	C.HOLDER	- <u>1</u>
	170	VKW4802-002	TORSION SPRING	C.LID&STABILIZER	1
	171	VXW4802-002 VJT3271-002	CASSETTE STABIL	C. LIDOS TABILIZER	1 1
	173	VJD5176-002	PAD PAD		1
	174	VJD5201-002	PAD		
+	175	SDST3006CC	SCREW	AMP CHAS(A)+C.CHAS	1 2
	176	SDST3006CC	SCREW	AMP CHAS(B)+C.CHAS	2
	177	VKM3191-001	AMP CHASSIS(B)	REC PWB	1
1	178	SDST3006CC	SCREW	A.CHAS(A)+R.PANEL	2
	179	SSST3008CC	SCREW	S.BKT+A.CHAS(A)	2
\dagger	180	VKZ4001-010	WIRE CLAMP	CENTER CHASSIS	$-\frac{1}{1}$
1	181	VWE350-08NTNT	LUG WIRE		3
		VWE350-08NTNT	LUG WIRE		1
	182	VKZ4001-010	WIRE CLAMP	PB HEAD	1
╛		VKZ4001-010	WIRE CLAMP	HEAD	1
	183	VKZ4001-111	WIRE HOLDER	REC HEAD	1
	184	VKZ4001-111	WIRE HOLDER		1
2	185-1	QMF51A2-R63	FUSE	TD-V1010A/C/E/G/J	2
Δ		QMF51E2-R63BS	FUSE	TD-V1010B	2
<u>A</u>	185-2	QMF51A2-1RO	FUSE	TD-V1010A/C/E/G/J	2
Δ	186	QMF51E2-1ROBS	FUSE	TD-V1010B	2
	INK	QZL1002-003	WARNING LABEL	TD-V1010B	1
	100				1

14 Packing Illustration and Packing Parts List

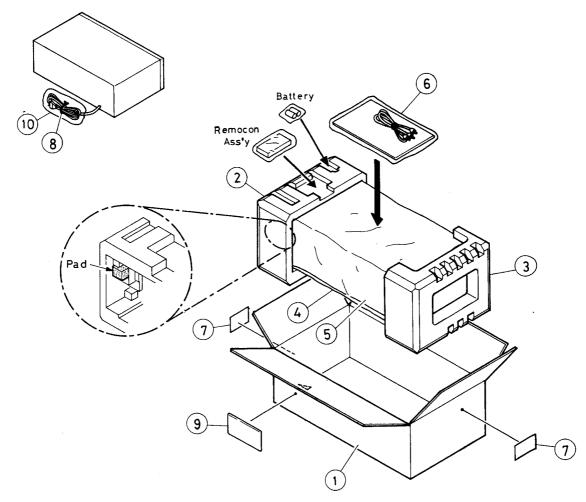


Fig. 14-1

Packing Parts List

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VPC2249-002	CARTON		1
	2	VPH2315-001	CUSHION(L)		1
	3	VPH2315-002	CUSHION(R)		1
	4	E34033-015B	ENVELOPE	FOR UNIT	1
	5	E73660-008	SHEET	FOR UNIT	1
_	6	VPE3005-007	POLY BAG	FOR INST BOOK	1
	7	VND3044-001	S.TICKET (WT)	FOR A VERSION	1
'		VND3044-002	SERIAL TICKET	FOR J VERSION	2
		VND3044-003	S.TICKET (BU)	FOR E VERSION	1
		VND3044-004	S.TICKET (GR)	FOR B VERSION	1
		VND3044-005	S.TICKET (RD)	FOR G VERSION	1
		VND3044-006	S.TICKET	FOR C VERSION	2
	8	Q04141H	WIRE CLAMP	FOR POWER CORD	1
	9	E66416-003	ENVELOPE	FOR J VERSION	1
	10	QPGA010-03003	POLY.BAG	FOR POWER CORD	1
-		VPH4116-003	PAD	FOR CUSHION(L)	1
1					
1					
L					

15 Accessories

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
		BT20025K	WARRANTY CARD	C VERSION	1
		BT20029C	WARRANTY CARD	A VERSION	1
		BT20044F	SAFETY GUIDE	J VERSION	1
		BT20047D	WARRANTY CARD	J/ U VERSION	1
		BT20060	WARRANTY CARD	B VERSION	1
Г		BT20064A	WARRANTY CARD	G VERSION	1
		BT20066A	WARRANTY CARD	B/G VERSION	1
		BT20071A	SVC CENTRE LIST	C VERSION	1
		BT20098	WARRANTY CARD	A VERSION	1
		BT20108	WARRANTY CARD	J VERSION	1
<u> </u>		BT20108	WARRANTY CARD	U VERSION	1
		EWP805-001E	REMOTE WIRE		1
		E43486-340A	SAFTY INST SHEE	B VERSION	1
		TCP-3304	AUDIO TAPE PAMP		1
1		VMP0039-00D	PIN CORD		1
Г		VNN2249-661	INST BOOK		1
		V04062-001	CONTI.PLUG	U VERSION	1
		Q7L1002-003	WARNING LABEL	B VERSION	1
1		QZL1007-001	BEAB LABEL	B VERSION	1
		TJL000420-01	CAUTION LABEL	B VERSION	1
		T44362-001	CSA LABEL	C VERSION	1
		VNC5004-001	MARK STICKER	B/E/G VERSION	1
		VNC5311-203	CAUTION CARD	U(ES) VERSION	1
		VNC5311-204	CAUTION CARD	U(PX) VERSION	1
L		VND4113-001	G.CAUTION CARD	B VERSION	11
		VND4113-001	G.CAUTION CARD	J VERSION	1
		EUR64489	REMOCON ASS'Y	RM- RT1010U	1
		UM3HJ-2P	BATTERY		2
L					